

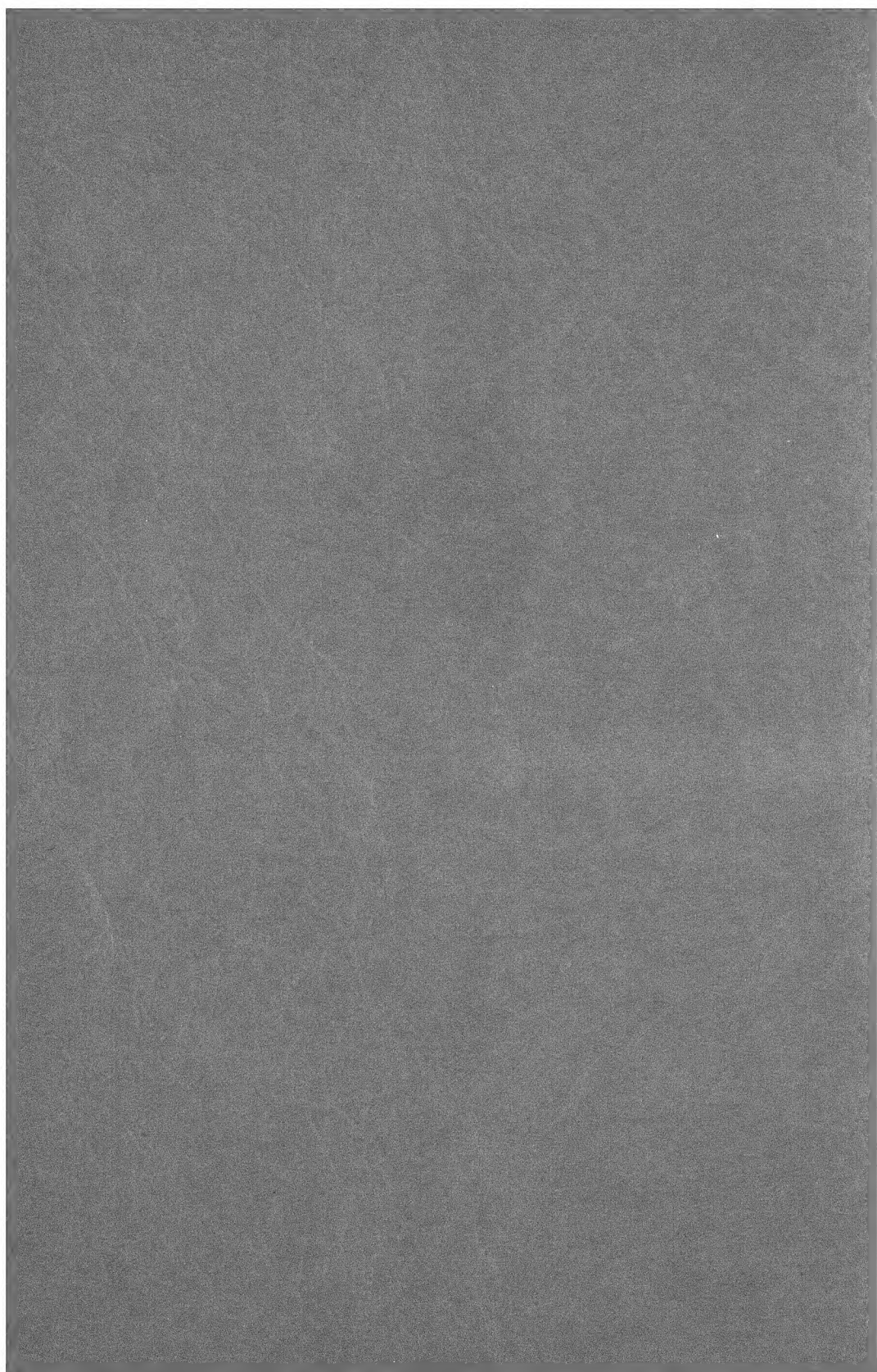
*The Association of Professional Engineers
of
Alberta*



HISTORY OF THE ASSOCIATION
... AND ...
ALBERTA ENGINEERING
PROFESSION REGISTER

AUGUST 15TH, 1940

Issued by the Registrar under the Direction of Council as required
by Section 14 (1) of the Engineering Profession Act, 1930, 1936.



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The Association is indebted to Mr. John Blue, Secretary-Manager, Edmonton Chamber of Commerce, for his interest and effort put forth in the preparation of the story of the formation and development of this Association.



Association of Professional Engineers of Alberta

The present generation of Albertans have an advantage that future citizens of the Province will never enjoy. They have seen a new Province of Canada mapped out and defined, given a government and a legislature, and placed in a position to establish de novo the institutions that organized, progressive society in older communities has found necessary to give ordered and enlightened expression to business endeavour and the development of the country. The history of Alberta since 1905 is an object lesson in the methods that a free and progressive people will voluntarily follow in establishing those institutions which regulate, under the law, the conduct of professions with the prime object of protecting the public and advancing the temporal interests of all classes by a code of scientific and honorable practice.

In this brochure an attempt will be made to give a brief history of the Association of Professional Engineers of Alberta, a typical example of the type of institution referred to above.



F. H. PETERS
President 1920

The construction of buildings, of public works, and the investment of money therein, must be done in a scientific manner to protect human life as well as investment, and positively requires the knowledge, experience and skill of trained men—in a word, of engineers.

Engineering is the supreme science of modern life. The physical advancement of the world from Archimedes to James Watt and Thomas Edison is due in a large measure to engineering. "Engineering," said Webster in his dictionary: "is the art and science by which the properties of matter and the sources of power in nature are made useful to man." The engineer is a disciple of mechanical and technical problems improving physical and human conditions. He has given us roads, railways, canals, water power, electrical power, and has transformed Canada from a land of primitive means of production and trade to a high state of efficiency in agriculture, manufacturing and transportation.

These problems faced the people of Alberta early in its history, and especially after the Great War. To meet them, the Association of Professional Engineers of Alberta was formed. And the definition in the "Engineering Profession Act" describes the qualifications of the men who are to be allowed to advise on these essential activities of our modern and progressive age.

Immediately after the war of 1914-18, Western Canada developed under somewhat lax regulation. Many projects were carried out by men completely unqualified to hold positions of engineering responsibility. Although no engineering disasters were recorded, waste of money and resources, and poor engineering, were everywhere evident.

On February 28th, 1918, a committee of the Edmonton Branch of the Engineering Institute of Canada was set up to summarize proposals regarding legislation. Between that time and December of the same year



R. A. BROWN
President 1921

things had advanced far enough to arouse opposition from the Alberta Branches of the Canadian Institute of Mining and Metallurgy, for while the members of the Alberta Branches of the Engineering Institute had the welfare of all engineers at heart, they had gone ahead too far without consulting their confreres in other Societies.

A hurried meeting of the Executive of the Edmonton Branch was called on December 12th when it was decided to arrange an informal joint meeting with the Northern Alberta Branch of the C.I.M.&M.

It is evident that the pot was boiling fast at this time for the joint meeting was held the very next day in the Qu'Appelle Block. Representative mining engineers attended and "a spirit of goodwill animated the proceedings throughout." Misunderstandings were soon cleared up and the mining engineers present "thought they might make common cause with us, provided our bill was amended to allow the same privileges to qualified members of the C.I.M.&M. as are offered to corporate members

of the E.I.C., and further provided they are allowed to help in framing the proposed Act." It was further suggested that members of the two bodies should get together in the Southern part of the Province. An executive meeting of the Edmonton Branch was held the following day endorsing joint action with the Mining Engineers even if it involved a year's delay, but on December 23rd, two delegates from the Calgary Branch—Mr. F. H. Peters and Mr. C. M. Arnold, met with the Edmonton executive and expressed strong opposition to delay.

A joint meeting was held that same afternoon at which the representatives of the Calgary and Edmonton Branches of the E.I.C. met executive members of the Northern Branch of the Mining Institute. Urgency was stressed, and Premier Stewart was interviewed at the Macdonald Hotel in the evening. He gave some encouragement but was non-committal and told the delegates that the Bill could not be introduced as a Government measure.

By January 1919 opposition developed from the Alberta Land Surveyors who claimed that their rights to practice a certain amount of engineering work must be protected, and by the end of January it became evident that delay was the better part of wisdom, especially as the parent body of the E.I.C. was now taking part, and suggesting the formation of a Dominion-wide Committee to study legislation.

This Committee of the Institute was finally agreed to, and it was set up and met in Montreal. This meeting in Montreal brought out the undoubted fact that there was active dissatisfaction with the post-war position of engineering in Canada. Meetings of the members of the Edmonton Branch at the end of the war frequently resulted in hot arguments with a considerable part in favor of forming a union. At the time of the famous Winnipeg strike in 1919, the minutes of the Edmonton

Branch record that a Western Professional meeting of the Institute was called off because of "unsettled conditions in the West." No doubt this pressure forced many to press for legislation as a safer alternative. The independent effort of Alberta, and the possibility of an independent body being used in British Columbia to obtain legislation, forced Headquarters to take part in the movement. Delegates to the Montreal meeting were present from every Province in Canada, except Prince Edward Island. The Alberta delegates were Messrs. F. H. Peters of Calgary (who was probably the most active man in the Province in promoting the idea of legislation) and R. J. Gibb of Edmonton. The Committeemen, particularly those from Alberta, British Columbia and Ontario, realized that there had to be a complete break-away from the Institute, and naturally the Committee ran head on into opposition in unofficial meetings with members of the Montreal executive. Finally, when the Committee presented a strong and unanimous front in the matter, the Institute agreed to stand aside, realizing that whatever was good for the profession would, in the long run, benefit the Institute. The Committee drafted a model Act which was later used as a basis by all the Provinces for obtaining their individual Acts, and since that time the Institute has loyally supported all efforts towards legislation.

In 1920 a petition was presented to the legislature praying for the incorporation of an "Association of Professional Engineers," and as a result "The Engineering Profession Act" was passed, receiving assent April 10th, 1920, and the Association became a body corporate. (Chapter 50, 1920).

The leaders in the movement to organize the engineers were men who, then and ever since, have held a high reputation in the profession and were created charter members of the Association by the Act, namely: Messrs. O. E. S. Whiteside, L. E. Drummond, F. H. Peters, R. J. Gibb, J. F. McCall, F. W. Hobson, W. R. Pearce, R. A. Brown and R. S. L. Wilson. These, with those since admitted, under the terms of the Act, have constituted the Association of Professional Engineers of Alberta.

The Act gave the usual powers to formulate by-laws for the internal management of the Association, but was very specific as to the qualifications entitling an applicant to membership in order that he might designate himself as a "Registered Professional Engineer." These are set out in Section 2, Sub-sections 7 and 8, and Sections 7 and 8 of the Act of incorporation. Sub-section 8 of Section 2 is worth quoting, and is as follows:

"Professional Engineering" or "the practice of a professional engineer" shall embrace reporting on, advising on, valuating, surveying for, designing, directing the construction of, or the engineering inspection of, any of the works or processes omitted therefrom which are similar to those scheduled by reason of their requiring the skilled and professional application of the principles of mathematics, physics, mechanics, hydraulics, electricity, chemistry or geology in their development and attainment. The execution or super-



R. G. DRINNAN (1874-1940)
President 1922



C. A. ROBB
President 1923

Civil Engineering in the University of Alberta, Secretary and Registrar. Within three months of the passing of the Act, the interim Council was enjoined by the Act to call a general meeting of the ten members of the Association for the election of the ordinary Council. By-laws were drafted by the interim Council for submission to the general meeting and for the approval of the Lieutenant-Governor-in-Council, as required by Section 4 of the incorporating Act. The by-laws provided for the election of the regular Council of the Association by letter ballot, and a Committee was named (Whiteside, Gibb and McCall) to nominate a slate of officers to be elected at the first general meeting. Forms for the ballot, application, registration and certification were prepared and Mr. W. R. Pearce was appointed the representative of the Association on the Senate of the University of Alberta.

The second meeting of the interim Council was held on June 26th, 1920, in Edmonton. By this time it was learned that the proposed by-laws had been approved by the Lieutenant-Governor-in-Council and the way was clear for holding the first general meeting of the Association. By this time the membership had grown to 106—all approved by the Board of Examiners appointed by the Senate of the University; Civil 69, Electrical 10, Mechanical 7, Mining 20. Accordingly the date was set for the first general meeting of the Association for July 10th, in Calgary.

The interim Council met the third time on the day of the general meeting for a final review of the proposed by-laws before presenting them to the general meeting.

The general meeting was held in the Board of Trade Rooms, Calgary, with 35 members present, and interim President Peters in the Chair. The draft by-laws were approved, subject to final ratification by letter ballot vote and by the Lieutenant-Governor-in-Council.

vision of works as a contractor, foreman, superintendent, inspector, roadmaster, track-master, bridgmaster, building-master or superintendent of maintenance, shall not be deemed to be professional engineering wherever such work has been designed by or is done under the responsible supervision of a professional engineer.'

The Senate of the University of Alberta was, and is, responsible for the determination of the qualifications of each applicant for admission to the Association. The Act further specified that representation on the Council, the executive body of the Association, should cover Civil, Electrical, Mechanical and Mining Branches of engineering science.

To get the Association initiated on a regular working basis, the Act provided for an interim Council of the charter members enumerated above. The first meeting of the interim Council was held in Calgary May 6th, 1920. Mr. F. H. Peters was appointed interim Chairman, and Mr. R. S. L. Wilson, Professor of

The first Council was elected as follows:

President F. H. Peters
 Vice-President L. E. Drummond

Councillors—

Civil:
 2 years S. G. Porter
 1 year R. J. Gibb
 Electrical:
 2 years R. A. Brown
 1 year R. B. Baxter
 Mechanical:
 2 years W. G. Gray
 1 year F. W. Hobson
 Mining:
 2 years O. E. S. Whiteside
 1 year N. C. Pitcher

A nominating committee of six: Messrs. J. A. Richards, W. R. Pearce, and A. L. Ford (Civil); R. B. Baxter (Electrical); A. Ingraham (Mechanical); Prof. J. A. Allan (Mining), was appointed for the 1921 ballot. Plans were laid for contact and co-operation with professional engineering associations in other Provinces of Canada, looking towards uniformity of by-laws and recognition of provincial acts by the Dominion Government.

Immediately upon the conclusion of the general meeting, a meeting of the first Council was convened. Prof. R. S. L. Wilson was elected Registrar and Secretary. A round-up notice, authorized by the general meeting was published in the daily papers of the Province warning all professional engineers that December 31st, 1921, was the last date upon which admission by credentials would be permitted, and that after the said date admission would be by examinations conducted by the Board of Examiners.

At the next meeting of the Council (December 27th, 1920) the vote by letter ballot revealed that the by-laws as framed at the general meeting in July had been passed by a large majority, and had also been approved by the Lieutenant-Governor in Council. The Association was now fully organized in conformity with the Act.

The second annual meeting was held in the Macdonald Hotel, Edmonton, March 26th, 1921. The election of officers resulted:

President R. A. Brown
 Vice-President G. W. Craig

Councillors:

Civil R. B. Elliot
 Electrical T. Schulte
 Mining B. L. Thorne
 Mechanical C. A. Robb



L. C. CHARLESWORTH
 President 1924



R. W. BOYLE
President 1925

this was a judicious interpretation of the Act, since it is probably most difficult to subdivide engineering into four precise subdivisions of the profession.

Since its inception, the Association had been almost exclusively interested in completing its internal organization, but at this meeting directed its interest to matters of public policy of which engineers have peculiar knowledge—drainage, water conservation, irrigation, highways, provincial and federal legislation.

A Standing Committee on Legislation consisting of Messrs. Robb, Gibb and Robertson was set up by the Council in April, 1921, and a petition sent to the Minister of the Interior to include an engineer on the Dominion Commission then studying the English River and Lake of the Woods projects.

By this time some opposition had developed among malcontented engineers of the Province against the whole purpose and operation of the Act, and it was proposed that the Senate of the University demonstrate to the Government of the Province the purpose and necessity of qualifying tests in the interests of public safety for those who held themselves out to be engineers and establish the idea that engineers were in reality servants of the community.

At a general meeting of the Association, November 26th, 1921, this question was vigorously discussed. It was shown that tests set by a competent examining board, such as the one appointed by the University Senate, should be opposed no more than the system of tests imposed by the University in respect to other professions. There were ten professional associations in the Province operating under similar acts and regulations. No really trained engineer should be opposed to proper tests for admittance to the profession. To increase usefulness of the Association to its 306 registered members, and achieve its objects, this meeting set up standing committees to study the by-laws, formulate a code of ethics, and devise ways and means of publicity.

The meeting decided that a member of the Association could be registered for more than one branch, while appreciating the difficulty of fixing hard and fast lines of demarcation between the several branches of engineering. A compromise decision was arrived at by requiring an engineer to have at least five years' experience in each branch applied for, and that the Act be amended, if necessary, in Section 15, Sub-section (3), to eliminate from the seal of the Association any designation of the branch in which an engineer member of the Association was registered, and that he be admitted to the branches for which he was qualified by tests of the University Senate. To clarify the distressing ambiguity in Section 6 of the Act, it was decided to obtain from Mr. H. H. Parlee, K.C., of Edmonton, the legal construction and effect of the Act in this respect. His opinion was that the Section specifying the various branches of engineering was "**for the purpose of examination and representation upon the Council only.**" It has transpired that

At the meeting of February 11th, 1922, attention was given to the practice of other provincial associations in Canada as to the interchange of licences. It was learned that members called upon to do work in other Provinces should notify the Secretary of the Engineers' Association in that Province, and this practice was general in Canada. This meeting also decided to provide bursaries for students in engineering at the University of Alberta.

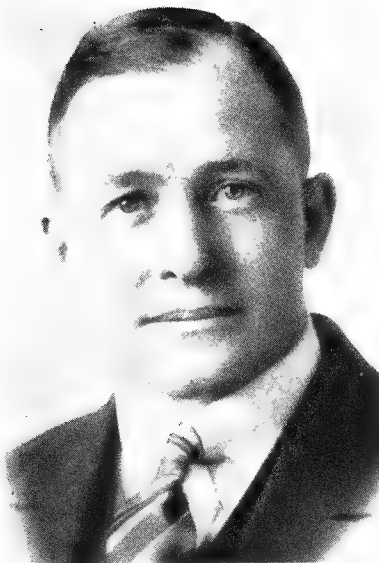
The third annual meeting was held in Edmonton, March 25th, 1922, and one can determine from a perusal of the Minutes thereof that the Association was beginning to engage in positive activities for itself and the public. The President was able to disclose some useful achievements of the various standing committees and that the finances of the Association were in good shape. Considerable discussion took place at this meeting as to the best methods of publicity. It was argued that the Publicity Committee might be better designated the Public Affairs Committee, as the public and many corporate leaders were sometimes skeptical of the beneficent purposes of even truthful and honest publicity. Some such action was imperative at that time because several companies were being organized on reports prepared by mining advisers who were not qualified to be admitted into the Association of Professional Engineers.

This meeting endorsed the request of the Edmonton Branch of the Engineering Institute of Canada to utilize the services of the students of engineering in the University of Alberta as far as possible in organizing survey parties and staffs for other engineering projects in order to promote the standards of the profession. Steps also were taken to appropriate \$300.00 of the Associations' funds annually as prize money for the best students in the Faculty of Engineering in the University of Alberta.

By April, 1922, the Committee directed to draft a code of ethics made their report to the Council, and it was ordered to be referred to the next general meeting of the Association. The Committee consisted of Messrs. Haddow, Gray, Lightbody and Stirling. The appointment of a Public Affairs Committee was decided upon and a letter ballot thereon sent out to the members. Mr. W. M. Fife was appointed Secretary, and Prof. R. S. L. Wilson, who continued only for nine months, was made Registrar for a second period of two years. Another attempt was made to revive the Publicity Committee, with Mr. F. E. Emery, Chairman—other members, Messrs. L. E. Drummond and S. G. Porter. It was decided to leave to the judgment of the Committee the facts to be publicized from time to time. This committee carried out its duties with vigor and profit throughout the year and received high commendation from the next general meeting of the Association in Lethbridge (June 6th, 1923). It received the generous co-operation of the provincial press. Such appropriate subjects as "Road Building in Alberta"; "Importance of Careful Investigation of the Bearing Value



B. L. THORNE
President 1926



W. J. CUNNINGHAM (1886-1934)
President 1927

of Soil on which Structures will Stand"; "Survey of Industrial Opportunities"; "Experiments in Improving Prairie Roads," were welcomed by the newspapers and instructive to the electors of the Province.

Early in 1923 arose the problem of the right and propriety of a geologist to have the privilege to revise a report he furnished to a mining company, if his subsequent prospecting revealed additional data which would cause him to change his opinion of the ultimate value of the mining property. Council decided, however, that the Public Utilities Commission, which controls stock-selling, has the power to obviate any possible injustice that might arise in these situations.

A list of the members of the Association was published in the Alberta Gazette, February 15th, 1923.

At the fourth annual meeting (Calgary, March 31st, 1923), the Association confirmed and gave further evidence of its interest in young men about to commence their engineering careers by granting \$100.00 each to the students having the highest average standing at the end of their final year in Civil, Electrical and Mining courses, leading to the degree of B.Sc. in the University of Alberta, and a similar prize to the student in Mechanical engineering having the highest marks at the end of his second year, who entered Mechanical engineering at some other Canadian institution.

In consonance with the wide scientific and specific technical training engineers receive in their University courses, this annual meeting tried, in a very modest manner, to secure recognition of the profession in the planning of public works, like power plants and power extensions, and that all plans and reports submitted to the Utilities Commission, with respect to any scheme entailing public indebtedness or appeals to the public in stock-selling proportions, should be submitted by registered professional engineers. It was also suggested that where engineers were required as expert witnesses in court cases only registered professional engineers be called to testify; also, that all plans and documents submitted to the government bear the individual seal of the engineer submitting them.

As was plainly the duty of the Association, and which it accepted with honest vigor, it engaged in a campaign of publicity this year to warn the public with respect to reports issued by oil promoters not prepared and certified by registered professional engineers. The experience of several investors in the Turner Valley oil fields justified this action.

The next year (1924), the Association watched the developments in the legislature evolving the model city charter, and asked that it be made compulsory by Alberta cities to employ only registered professional engineers in city engineering projects and to have the Board of Public Utilities Commissioners recognize the Association to a greater degree—conditions that every urban taxpayer will always cheerfully endorse.

Provision was made for registered engineers of another Province of Canada to work in Alberta by paying a licence fee of \$5.00, and admitting

registered engineers of another Province to membership in the Association without payment of the entrance fee.

Members of the Association reaching the age of 65 were placed on the retired list. That outstanding engineer of Alberta, Mr. W. R. Pearce, of Calgary, was the first to be accorded this honor.

The fourth annual meeting was held in Calgary, March 29th, 1924. The year had been devoted to putting the Association in a good financial position, and with a satisfactory measure of success. Action was taken on library policy to the extent of securing lists of engineering books in the larger libraries of the Province, making the same available to members after the method employed by the Associated Engineering Libraries of New York.

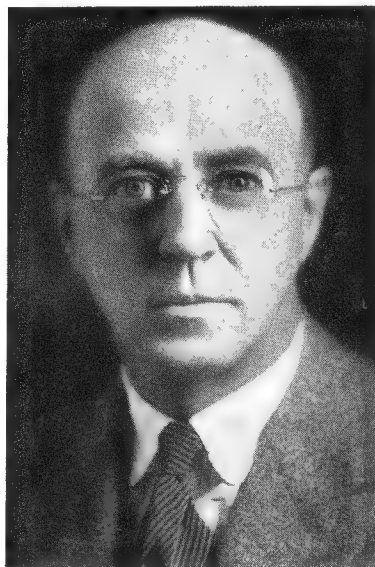
Arrangements were made with the University of Alberta to grant "Ad eundem" degrees to graduates in engineering from other Universities.

Two questions engaged the major attentions of the Association at this annual meeting, viz: annual dues and closer relations with engineering societies in other Provinces, and so indicative of their genuine interest in the latter subject. Mr. Wheatley, the Registrar and Secretary of the British Columbia Association of Professional Engineers, was present by invitation to co-operate in the planning of such a program.

The decision to promote harmony of practice among engineers and associations thereof was followed up early in 1925 by correspondence and sending a delegate to a meeting called by the Ontario Association, and the Engineering Institute of Canada, for this purpose. Mr. S. G. Porter was the delegate and upon his return the Council passed a resolution endorsing such action. This was followed by accepting the invitation of the E.I.C. of Montreal to send delegates as guests to that city for a similar meeting. The delegates appointed were Mr. B. L. Thorne and Registrar Gibb. They returned with an elaborate report of ways and means to organize and co-ordinate the work of the Engineering Association of Canada—uniformity of fees, standards of classification, etc.

Circulars were sent to the leading firms of the Province soliciting employment for members of the Association. Prof. Wilson, Secretary of the Association since its inception, retired at this time (January 23rd, 1925). He was presented with an illuminated address at the next general meeting. Mr. R. J. Gibb, of Edmonton, was appointed in his place.

The Council of the Association began in 1925 to consider group insurance—life, sickness and accident—for the membership. A circular, proposing the scheme, had been endorsed and an insurance expert was invited to attend the annual meeting and explain the plan. At the Council meeting in April, the plan presented by the London Life Insurance Company was made the basis of a questionnaire sent to all members. The result of the



R. S. L. WILSON
Pres. 1928; Registrar 1920-24



R. B. BAXTER (1890-1940)
President 1929

plebiscite was 104 for the plan, 13 opposed. The report was filed, and the final outcome of the negotiations was refusal, as the insurance company required 75% of the members of the Association embraced in the plan, whereas only 50% were in favor.

To promote more camaraderie among the members, general meetings of the groups in each city were promoted, at which distinguished lecturers on historical and scientific topics were heard.

For a considerable time there had been agitation for amendments of the by-laws to meet the expanding activities of the Association, and a Committee worked on them since the annual meeting in March, 1924. By December 8th, the new by-laws were submitted to Council, which, among other numerous changes, called for the bonding of the Registrar to the amount of \$1,000.00 for the "faithful performance of his duties." Another feature was the provision to link up young engineering students with the Association as "student members," as in other provincial associations. This

was approved by the University and a register for such students was opened under the supervision of Prof. R. W. Boyle and the Registrar.

In the spring of 1926, the Association received a complaint that the Provincial Department of Public Works was employing non-registered engineers and the Council, at its meeting in Lethbridge (March 26th, 1926), asked a conference with the Deputy Minister on the matter.

The sixth annual meeting was held in Lethbridge March 27th, 1926. A matter that naturally engrossed the attention of the members was the proposed transfer of the natural resources of Alberta to the jurisdiction of the Province. The certainty of many new technical services to be established by the provincial government—respecting mines, timber, fisheries, water-powers, lands, etc., opened new fields of service and opportunity for the various classes of engineers embraced in the Association. A resolution approved the decision of the Federal Government to effect the transfer and strongly advised the Provincial Government to accept. At the same time the Association freely offered its advice and services to organize effective administration facilities. The standing Committee on Legislation was authorized "to follow up the policy of the resolution and prominent members—Mayor Hardie of Lethbridge; Mr. B. L. Thorne of Calgary; Mr. D. W. Hayes of Medicine Hat; Mr. D. A. Macauley of Drumheller—were elected to assist the Committee. This annual meeting found little difficulty in approving the new by-laws already referred to and ordered them to be submitted for the sanction of the Lieutenant-Governor in Council, which upon being done, the sanction was generously granted.

The discovery of oil in Alberta raised a subject that concerned the seventh annual meeting (Calgary, March 27th, 1927)—the question of differentiating between a mining engineer and a geologist. Basing its conclusions on a report of the Council on the sub-division of existing branches of the Association, it was decided to adhere to the four classifications then existing, but in the case of a member whose exclusive practice

was in a particular subdivision of his class, the Council was given power to include this specialty on his certificate and seal.

There was also the subject of a Central Examining Board for all Canada and uniform standards of admission to the several Provincial engineering associations. This proposal from the Engineering Institute of Canada was endorsed by the meeting as worthy of support and adoption.

At a meeting of the Edmonton members of the Council, November 9th, 1927, action to study the Engineering Profession Act was initiated and committees asked for in Edmonton, Calgary and Lethbridge to examine the Act for inconsistencies and necessary amendments. At a full council meeting in Calgary, November 26th, it was recommended that positive action be taken by the Association towards this end—that the committees from the three above-named cities present their reports and a general committee of Messrs. W. J. Cunningham, R. S. L. Wilson, L. C. Charlesworth, J. A. Allan, R. J. Gibb, L. C. Stevens and P. L. Debney, be appointed to follow up and circularize the members of the Association for criticisms and suggestions.

A resolution embodying these views was presented to an extraordinary general meeting of the Association that met in Calgary the same day and unanimously endorsed. This general meeting gave full discussion and favorable consideration to the matter of co-ordination of the activities of the various Provincial engineering bodies throughout Canada, a movement initiated by the Alberta Association, as we have seen, in 1923.

At a district meeting, held in Lethbridge, February 18th, 1928, Mr. S. G. Porter reviewed the history of the formation of various provincial engineering associations of Canada, and their relation to the E.I.C. Membership in the E.I.C. and the Association, he said, was practically identical, with consequent overlapping of effort and expense. The meeting endorsed the action of the extraordinary general meeting at Calgary and recommended that the matter be passed at the approaching regular annual meeting at Edmonton. At this annual meeting (March 31st, 1928) the subject was vigorously discussed and a resolution in the following terms was unanimously affirmed.

“Whereas, it is believed that it would be in the interest of the Engineering profession to combine, as far as possible, the functions of the various Provincial Associations of Professional Engineers in Canada, and of the Engineering Institute of Canada, thereby avoiding duplication of effort and accomplishing a wider scope of work more economically and more effectively than can be done by the various organizations working separately; Therefore, be it resolved, by the Association of Professional Engineers of Alberta, that a committee of five members, consisting of the President and one member from each branch of the Association be appointed to study the problems involved in co-ordinating the activities of the various engineering organizations in



J. A. ALLAN
President 1930



R. S. TROWSDALE
President 1931

Canada, and to work in conjunction with similar committees from other organizations looking forward to the ultimate integration of all these bodies into one national organization. The motion was seconded by Mr. Robb."

Council acting under this authority, appointed (June 22nd, 1928) the following committee to study plans of co-ordination and to work in conjunction with similar committees from other engineering organizations:

Prof. R. S. L. Wilson.

Dr. R. W. Boyle.

Messrs. B. L. Thorne, P. M. Sauder, W. J. Cunningham.

This committee, studying changes deemed necessary in the Engineering Profession Act, reported to this annual meeting. Their report set out the following principles for a revision of the Act:

- (a) That complete control of the practice of professional engineering in Alberta rest in the Association of Professional Engineers;
- (b) That a code of ethics, controlled by by-laws, be devised to keep practice of members within their respective fields;
- (c) That sub-divisions of engineering shall not be shown on certificates nor seals;
- (d) That residential qualification is unnecessary.

The report was well received and unanimously approved. It was not until October, 1928, that the Council gave further study to a new engineering Act for the Province. A draft of a new Act had been prepared and was reviewed at this meeting and preparations made for due publicity before introducing the bill into the legislature. When the bill was in the legislature its promoters found the members of the legislature difficult to convince that the Association was not seeking a closed corporation rather than the safety and welfare of the public and the dignity of the profession. The amendments sought for were not accepted by the government.

The ninth annual meeting was held in Lethbridge (March 23rd, 1929) and it was gratifying to learn that the Association was in excellent financial condition—the surplus reaching the comfortable amount of \$5,500.00. Progress was reported on a draft syllabus of examinations for admission to membership in the Dominion organization, combining all the Provincial engineering associations throughout Canada. On April 30th the Council re-appointed the former committee on this subject to carry on.

At the tenth annual meeting in Calgary (March 22nd, 1930), the Committee on Amalgamation reported willingness to continue and asked leave to meet delegates from all provincial associations, the E.I.C. and other engineering organizations willing to co-operate. This report and request was endorsed and an adequate appropriation of \$2.00 per member of the Association made for the purpose.

The Committee on Legislation was able to report it had succeeded in inducing the Provincial Government to permit the passing of the new Engineering Act, which took place on March 21st, 1930. This accomplishment was regarded as a very important achievement in the history of the Association, as it conferred on the Association power to control engineering practice in the Province. Mr. S. G. Porter, the Chairman of the Committee, was able to report that similar Acts had been introduced into the legislature of Saskatchewan and Prince Edward Island, thus completing the roll of Canadian provinces having Professional Associations in Engineering.

The meeting recorded with deep regret the passing of Mr. W. R. Pearce, of Calgary, who had lived in the Province for nearly half a century and was an outstanding engineer and citizen.

The passing of the new Engineering Act (1930) required a revision of the by-laws of the Association and code of ethics. A committee for this purpose was appointed by Council in April; also to draft new forms for members' certificates and a new seal. By October these were completed and duly issued to the members of the Association.

The discovery of oil in Alberta attracted a number of geologists connected with oil drilling operations in the Province. A sufficient number joined the Association to give them representation on the Council, under the Mining Branch, which required appropriate changes in the constitution.

The formation of a Dominion Council still featured the meetings of the Association, and at the Council Meeting May, 21st, 1931, the proposal of a committee of four, representing all the provincial associations to study the problems involved was endorsed. A report of the Committee was submitted in September. It met with the approval of the Dominion Council Committee, of the Council and of the twelfth annual meeting at Lethbridge, March 19th, 1932, at which the work of Prof. R. S. L. Wilson, Alberta's member of the Committee, was highly commended and asked that the plan be promoted with all possible speed.

The waste of natural resources, especially natural gas, was noted at this meeting and a resolution deploring this condition was passed.

During the year the National Committee of four working on Dominion Council was increased to eight and presented a revised report to the 13th meeting of the Association. It provided for a Dominion Council composed of representatives of each Provincial Association. The report was adopted and Dean Wilson appointed Alberta's representative thereon. All of the Provincial associations definitely accepted the report of the committee of eight it was learned at the Council meeting in November (1933).

One of the first matters submitted to the Dominion Council was the entry into Canada of foreign engineers. The Department of Immigration was asked, through the Dominion Council, to notify the provincial associations concerned of the entry of foreign engineers. A committee was authorized at the council meeting of March 24th, 1934, to study the subject, in conjunction



R. J. GIBB
Pres. 1932; Registrar 1925-27



J. D. BAKER
President 1933

with the Association's representatives on the Dominion Council and at the Council meeting on the same day, Prof. J. A. Allan, Messrs. J. D. Baker, R. J. Gibb and R. S. Trowsdale were appointed for this duty and responsibility. Though the appointment of the Dominion Council seemed to be popular in all provinces, the plan of integrating all the engineering organizations across Canada to constitute a national association faltered. The problem was to find a model act protecting all branches of engineering.

Successful negotiations were held in 1935 with the Engineering Students' Society to get its members enrolled as a student group in the Association. The plan was consummated by the students forming a chapter of their own in the Association at the University and without an extra fee.

In 1936 a constitution was drawn up for the Dominion Council and upon submission to all Associations (and Corporation) was adopted. This Constitution has since been amended in a few minor items. An annual meeting is required and important work is being accomplished for the Profession by this body.

The administration of the Alberta Act had shown the need of certain amendments to give additional powers to the Council in respect to enforcement. The time seemed opportune in 1936 and a committee consisting of C. E. Garnett, Chairman; L. C. Stevens, R. J. Gibb, R. S. L. Wilson, A. Ritchie and P. L. Debney was set up and planned these amendments which were successfully obtained, greatly strengthening the Act by imposing penalties for infractions of various kinds.

There have been several activities in the past few years which have been of rather special importance.

with other provincial associations, with a view to finding equitable means to regulate the practice of foreign engineers in Canada. Among the suggestions advanced was the imposition of an entry fee of \$100.00, and that reports submitted by foreign engineers should be countersigned by a registered professional engineer. This did not dispose of the matter and it came up again at the October meeting of the Council, when a similar re-statement of the question was passed and a committee appointed to continue working for an equitable solution of the problem.

The annual meeting of 1934 (Edmonton, March 24th), revealed that co-ordination through the Dominion Council was popular and Dean Wilson was appointed for a period of two years to this body. Economic conditions, which prevailed from 1930, resulted in serious unemployment by this time among the members of the Association, which was alleviated to a certain extent by a reduction of 40% in the annual fees. This meeting authorized the appointment of a Committee to co-operate

Great progress has been made with the Immigration Branch in the exchange of information relative to the entry of foreign engineers to carry on engineering work. The Association's attitude in each individual case is sought by the Department and the Administration of the sections of the Act relative to licensing has improved greatly. The granting of licences reached a peak in 1939 with the increased development in the Turner Valley area and the search for further petroleum fields.

The inclusion of engineers connected with the petroleum industry lead in 1939 to the request by them that a new Branch of the Association be formed, to be known as the Petroleum Branch. A motion to this effect was passed at the 19th annual meeting in March, 1939. Council experienced some difficulty in instituting this Branch and a special committee was instructed to give thorough study to the whole matter of classification within the Association. This Committee reported at the March, 1940, meeting. They recommended, among other things, that at the earliest possible moment, the present system of classification into branches be discarded.

The movement towards Co-ordination between the Professional Associations and the Engineering Institute of Canada has continued under study and discussion. A committee of the Association appointed to consider this matter presented a report at the general meeting in Edmonton in March, 1940. A tentative agreement, similar to those signed by Nova Scotia and Saskatchewan with the E.I.C., was approved and at the time of writing a ballot is being studied for submission to the membership in this connection.

A most effective step in discipline and enforcement was the setting up of local committees for this purpose in the cities. These groups consist of the councillors in each district. Violations of the Act are considered and investigated by each committee for its own area and recommendations are then made to Council. Enforcement has been much improved by this action.

The Council realized that much work needed to be done by the Registrar to increase the activity of the Association through travelling about the Province making contact with as many members as possible and interviewing prospective members. This campaign was begun in 1939 and is being continued this year, with excellent results. A new arrangement has also been set up for attracting into membership as engineers-in-training the great group of graduates each spring which later will form the backbone of the Association. These efforts are meeting with success and before long this group of Engineers-in-Training should add great strength and initiative to the organization. Much effort was put forth this spring for this group in connection with employment, and with considerable success.

At this date 11 members and engineers-in-training of the Association are serving Canada and the Empire in the Canadian Active Service Force.



J. B. de HART
President 1934



P. M. SAUDER
President 1935



A. W. HADDOW
President 1936



C. E. GARNETT
President 1937



J. O. G. SANDERSON
President 1938



J. T. WATSON
President 1939



H. J. McLEAN
President 1940



P. L. DEBNEY
Registrar 1928-1939



H. R. WEBB
Registrar 1939

Alberta Engineering Profession Register

August 15th, 1940

HONORARY MEMBER

Wallace, Robert Charles, M.A., Ph.D., D.Sc., LL.D., F.G.S., F.R.C.S.
Principal, Queen's University, Kingston, Ontario.

MEMBERS

*Allan, John A.	Edmonton	Mining
(b) University of Alberta.	Professor of Geology.	Geological
(r) 6 University Campus.	surveys oil, gas, coal, water power, metals, underground water, salt and other non-metals.	
Allen, Peter	Vancouver, B.C.	Mining
(r) 1340 Burnaby Street.	Retired.	
Anderson, J. M.	Hanna, Alta.	Civil
Box 280.	District Engineer, Department of Public Works, Province of Alberta. Construction, maintenance and administration of highways and roads.	
*Atkins, C. B.	Edmonton	Civil
(b) 510 Agency Bldg.	Land Surveys—Subdivision, Oil and Mineral Leases, Right of Way for Railway. Pipe and Transmission Lines. Municipal Engineering, Roads and Drainage. Mine Surveys.	
(r) 10049 - 114 Street.		
Baker, J. D.	Edmonton	Electrical
(b) Alberta Government Telephones.	Deputy Minister and General Manager for Alberta Government Telephones.	
(r) 11045 - 85 Avenue.		
Ballou, F. H.	Vancouver, B.C.	Mechanical
(b) c/o B.C. Sugar Refining Co., Ltd.	Chief Engineer, B.C. Sugar Refining Co., Ltd., and Canadian Sugar Factories, Ltd. Engineering operation and maintenance, design and construction.	
Beach, Floyd K.	Calgary	Civil
(b) New Telephone Bldg.	Petroleum Engineer, Department of Lands and Mines, Government of Alberta. Statistics of the industry. Studies based on the statistics, and related duties.	
(r) 1914 - 5 A Street W.		
Bell, R. Clifford	Calgary	Civil
209 - 7 Ave. E.	Resident Engineer, Dept. of Transport. Supervising construction of aerodrome.	
Beringer, M. S.	Calgary	Mining
(b) Box 279.	Refinery Superintendent, The British American Oil Co., Ltd. Supervision of operations, Calgary Refinery and Turner Valley Absorption Plant, and construction work done in these two plants.	

*Carries on Consulting Practice.

Boese, G. P. F.	Calgary	Civil
(b) Dept. of Natural Resources, Canadian Pacific Railway Co.	Assistant to Chief Engineer, C.P.R. Design of hydraulic structures--concrete, steel, wood, and general engineering pertaining to irrigation works.	
(r) 1129 - 19 Ave. W.		
Bone, P. Turner	Calgary	Civil
340 - 4 Ave. W.	Retired.	
Bowden, H. A.	Edmonton	Civil
(b) c/o Engineering Dept. Canadian National Railways.	Instrumentman with C.N.R. Maintenance, Drainage, construction, etc.	
Bowman, R. F. P.	Lethbridge	Civil
(r) 8 Tudor Manor.	Recordmaster, C.P.R. Construction and maintenance work.	
(b) c/o Canadian Pacific Railways.		
Bowness, Ernest W.	Calgary	Civil and Electrical
(b) 215 - 6 Ave. W.	Vice-President and Managing Director, Can. Western Nat. Gas, Light, Heat & Power Co., Can. Utilities, and Northwestern Utilities.	
(r) 1238 - 19 Ave. W.		
Bradley, N. A.	Edmonton	Civil
(b) c/o Dept. of Public Works.	Resident Engineer, Dept. of Public Works. Highway location, grading and gravelling. Supervision of work and costs on day labor construction camps.	
(r) 11024 - 81 Avenue		
Bradley, N. H.	Lethbridge	Civil
(b) 216 - 5 Street.	District Engineer, Dept. of Public Works. Highways maintenance and local roads supervision.	
(r) 631 - 14 St. South		
Branch, A. J.	Diamond City	Civil
	Assistant Engineer, Lethbridge Northern Irrigation District. Surveys for reclassification of lands, drainage, seepage and all engineering work connected with irrigation projects.	
Brown, George S.	Lethbridge	Civil
(b) 207 - 7 St. South.	Canal Superintendent, Dept. of Nat. Resources, C.P.R. General field engineering work in irrigation maintenance and construction, also structural and canal design. Supervision of hydrometric work, classification of lands.	
(r) Box 123.		
Brown, J. E.	Calgary	Civil
(r) 1427 - 7 St. N. W.	On Active Service. R.C.E.	
(b) 1013 - 8 Ave. W.		
Brown, R. A.	Calgary	Electrical
(b) 232 Loughheed Bldg.		
(r) 1215 Prospect Ave.		
Brown, Thomas W.	Edmonton	Civil
(r) 48 Arlington Apts.	Consultant on land and road surveys and engineer on construction.	

Brownie, F. A.	Calgary	Civil
(b) 215 - 6 Ave. W.	Assistant to Vice-President, Canadian Western Natural Gas, Light, Heat & Power Co. Estimates, design, statistics, corrosion problems, miscellaneous engineering and office work.	
(r) 720 - 1 St. N. W.		
Bruce, William C.	Edmonton	Electrical
(b) Alberta Government Telephones.	General Plant Superintendent, Alberta Government Telephones. Supervision of engineering construction and maintenance of Telephone Plant.	
(r) 10210 - 125 Street.		
Burfield, F. R.	Edmonton	Civil
(b) Water Resources Office Terrace Building.	Chief Engineer, Water Resources Office, Provincial Government. Supervision of water storage and diversions of all purposes including drainage.	
(r) 10947 - 86 Avenue.		
Burke, Jules B.	Lethbridge	Electrical
(r) 628 - 15 St. South.	Plant Superintendent, Alberta Government Telephones. Consultant on telephone systems. General supervision.	
Bury, B. E.	Vermilion, Alta.	Civil
(r) Box 1792.	Consultant on drainage and road work. Drafting and design.	
Callaghan, John	Edmonton	Civil
(r) 315 Macdonald Hotel.	Retired.	
Campbell, J. M.	Lethbridge	Civil
(b) Canadian Pacific Railway.	Division Engineer, C.P.R.	
(r) 1222 - 3 Ave. South.		
*Carruthers, J. A.	Edmonton	Mechanical
(b) University Power Plant.	Chief Engineer, Univ. of Alberta. Consultant on general power plant work. Combustion, coal and ash handling; estimates; installation; heating and ventilating; steam utilization.	
(r) 11020 - 85 Avenue.		
Carry, C. W.	Edmonton	Civil
(b) Standard Iron Works	Sales Engineer, Standard Iron Works.	
121 St. and 106 Ave.	Sales work; structural and general engineering design.	
(r) 11138 - 90 Avenue.		
Chapman, A. S.	Calgary	Civil
(b) City Engineer's Office		
Chappelle, J. W. S.	Edmonton	Civil
(r) Corona Hotel.		
Charlesworth, L. C.	Brooks, Alta.	Civil
	General Manager, Eastern Irrigation District.	
*Clark, K. A.	Edmonton	Mining
(b) University of Alberta	Professor of Metallurgy, University of Alberta. Consultant on tar sands.	
(r) 11619 Saskatchewan Dr.		
Clendening, C. S.	Lethbridge	Civil
(b) Leth. Northern Irrigation District.	District Manager and Chief Engineer, Lethbridge Northern Irrigation Dist.	
(r) 1206 - 6 Ave. South.		

Codington, W. L.	Medicine Hat	Civil
(b) Canadian Pacific Railway Company.	Division Engineer, C.P.R.	
(r) 360 - 1 Street.		
Connors, F. B.	Medicine Hat	Civil
(b) Court House.	District Engineer, Dept. of Public Works. Construction and maintenance of roads.	
*Cornish, W. E.	Edmonton	Electrical
(b) University of Alberta.	Assistant Professor of Electrical Engineering, University of Alberta.	
(r) 11139 - 91 Avenue.		
Coulitis, Samuel G.	Calgary	Mining
604 Second St. West.	Manager, Valley Pipe Line Co., Ltd.	
Couper, R. R.	Edmonton	Mechanical
(b) City Power Plant	Technical Assistant to Superintendent, City Power Plant. Design and general engineering work.	
(r) 11149 - 81 Avenue.		
Craig, George W.	Evanston, Ill.	Civil
(b) 308 West Washington St., Chicago, Illinois.		
(r) 2112 McDaniel Street, Evanston.		
Craig, W. D.	Edmonton	Mining
(b) 316 McLeod Building.	Barrister-at-law.	
Cranston, M.	Drumheller, Alta.	Mining
	Mine Manager, Midland Coal Mining Co., Ltd. General mining engineering, management and charge of production.	
*Crockford, M. B. B.	Edmonton	Mining
(r) 11008 - 87 Avenue.	Consultant on petroleum geology.	
Crook, Wesley	Brooks	Civil
Box 14.	Engineer, Eastern Irrigation District.	
Cross, F. G.	Lethbridge	Civil
(b) Irrigation Office, C.P.R.	Superintendent, Operation and Maintenance, C.P.R. Irrigation projects.	
(r) 1018 First Ave. South.		
Cullerne, L. H. V.	Edmonton	Civil
(b) Highways Branch, Dept. of Public Works.	District Engineer, Dept. of Public Works, Provincial Government. Supervision of maintenance of highways, etc.	
(r) 11614 - 97 Street.		
*Cullwick, E. G.	Edmonton	Electrical
(b) University of Alberta.	Professor and Head of Dept. of Electrical Engineering, University of Alta.	
(r) 11107 - 90 Avenue.		
Cumberford, J.	Drumheller	Mining
(r) Box 763.	Mine Manager, Red Deer Valley Coal Co., Ltd.	
Dalkin, Thomas W.	Edmonton	Civil
(b) Dept of Lands and Mines, Administration Bldg.	Superintendent of Technical Division, Dept. of Lands and Mines, Provincial Government.	
(r) 10026 - 118 Street.		
Davidson, C. A.	Victoria, B.C.	Civil
(b) Royal Canadian Air Force Western Air Command.	On Active Service, R.C.A.F.	

Davidson, J. M.	Lethbridge	Mining
(r) 1110 - 5 Ave. South.	Mine Manager, Lethbridge Collieries, Limited.	
Davidson, W. M. (Jr.)	Edmonton	Civil
(b) c/o Northern Alberta Railways.		
*Davies, S. J.	Calgary	Mining
(r) 1128 Prospect Avenue.	Managing Director, The Valley Gas Co., Ltd. Manager, Highwood Sarcee Oil and Associates. Consultant to City of Calgary on rates payable by consumers for natural gas. Estimates of reserves of oil and natural gas; advice on petroleum taxation, depletion; construction natural gas lines and systems.	
Dawson, A. S.		Civil
	Retired.	
Dawson, W. J. S.	Edmonton	Civil
(b) Dept. of Public Works.	Resident Engineer, Dept. of Public Works, Provincial Government.	
Day, H. S.	Edmonton	Civil
(r) 11112 - 83 Avenue	District Surveyor and Engineer, Dept of Public Works. Highways subdivision, etc.	
(b) Dept. of Public Works.		
Debney, P. L.	Edmonton	Civil
(r) 10123 Clifton Place.	On Active Service, R.C.E.	
deHart, J. B.	Calgary	Mining
(b) Dept. of Natural Resources, Canadian Pacific Railway.	Mining Engineer, Department of Natural Resources, C.P.R. Administration of Mineral Rights.	
(r) 2201 - 10 St. West.		
Dingman, C. W.	Calgary	Mining
(b) Petroleum and Natural Gas Conservation Board, New Telephone Building.	Deputy Chairman, Petroleum and Natural Gas Conservation Board. Responsibility for enforcement of Regulations issued under the Oil and Gas Wells Act.	
(r) 514 Sunderland Avenue.		
Dingwall, R. M.	Edmonton	Mining
(r) 10224 - 131 Street.		
Donaldson, C. S.	Lethbridge	Mining
(r) 924 - 7 Ave. South.	Mine Manager, Lethbridge Collieries, Ltd. Mine operations.	
(b) Lethbridge Collieries Ltd.		
*Donkin, F. J.	Nelson, B.C.	Mechanical
(r) R.R. 1.	Employed by Crow's Nest Pass Coal Co., Ltd., Fernie, B.C. Design and installation of coal handling and washing plants.	
(b) Box 97.		
Duncan, J. E.	Edmonton	Electrical
(r) 8520 - 104 St.	Bennett & White Construction Co.	
Dunlop, R. W.	Calgary	Mechanical
(b) Imperial Oil Ltd., Manufacturing Dept.	Mechanical Engineer, Imperial Oil Co., Limited.	
(r) 722 Riverdale Ave.		

*Dunn, A. C.	Edmonton	Mining
(b) 10117 - 100A St.	Managing Director, The Great West Coal Co., Ltd.	
(r) 10327 - 133 St.	Managing Director, The Black Diamond Coal Co.	Directing mining operations.
*Edwards, William M.	Lethbridge	Civil
(b) 11 Oliver Block.	Private practice, topographical reports.	
(r) 529 - 14 St. South.		
Fetherstonhaugh, W. S.	Calgary	Civil
(r) 810 Royal Ave.	Assistant Engineer, Dominion Govt.	
Fetterly, P. A.	Calgary	Civil
(b) 423 Public Bldg.	Assistant Hydraulic Engineer, Water and Power Bureau, Dept. of Mines and Resources.	Water and power statistics.
(r) 639 - 14 Ave. West.		
Forbes, J. M.	Edmonton	Civil
(b) Dept. of Public Works.	District Engineer, Provincial Government.	
(r) 10547 - 125 St.	Highways maintenance.	
Foss, W. L.	Calgary	Civil
(b) 419 Public Bldg.	District Engineer, Dominion Dept. of Agriculture (P.F.R.A.)	Investigating, designing, and in charge construction water conservation and irrigation projects.
(r) 3002 - 15 St. West.		
Frame, Alex.	Edmonton	Civil
(b) Dept. of Public Works.	Chief Construction Engineer (Highways), Provincial Government.	
(r) 11044 - 82 Ave.		
Gaherty, G. A.	Montreal, P.Q.	Civil
(b) 244 St. James St.	President, Montreal Engineering Co., Limited.	
(r) 3019 Cedar Ave.		
Gardner, A. C.	High Prairie	Civil
(b) Dept. of Public Works.		
*Garnett, C. E.	Edmonton	Electrical
(b) 10238 - 104 St.	President, Gorman's Limited.	Consultant on power plants, etc.
(r) 10344 - 132 St.		
Garrett, Julian	Edmonton	Civil
(b) 10124 - 104 St.	General Manager, Northwestern Utilities, Limited.	
(r) 10408 Park Road.		
Gayfer, A. J.	Calgary	Civil
(r) 1921 - 10 St. West.	Division Engineer, C.N.R.	
Gibb, Robert J.	Edmonton	Civil
(r) 9837 - 93 Ave.	Employed by City of Edmonton as Commissioner of Utilities.	
(b) City Commissioner, Civic Block.		
Gilbart, K. C.	Calgary	Mining
(b) Pet. & Nat. Gas Division, New Telephone Bldg.	Chemist, Department of Lands and Mines, Provincial Government.	Laboratory and field tests in connection with oil well drilling, crude oil, gas, water and petroleum products.
(r) 121 - 8 Ave. N.E.		
Goodall, D. P.	Calgary	Mining
(b) Pet. & Nat. Gas Conservation Board, Telephone Bldg.	Petroleum Engineer, Petroleum and Natural Gas Conservation Board.	
(r) 1722 - 11 Ave. West.		

Graham, F. J. Old Court House.	Calgary	Civil District Engineer, Dept. of Public Works, Provincial Government. Highway maintenance.
Gray, Wilfred J. (b) 215 - 6 Ave. West. (r) 341 Scarboro Ave.	Calgary	Civil Distribution Superintendent, The Canadian Western Natural Gas, Light, Heat & Power Co., Ltd. Design and construction of structures and distribution of natural gas to consumers.
Green, Leonard Box 46.	Calgary	Mechanical
Green, Raoul	Blairmore	Mining Mining Engineer, West Canadian Collieries.
Griffin, A. (b) Strathmore, Alta.	Calgary	Civil Chief Engineer, Dept. of Natural Resources. Operation and maintenance of irrigation systems.
Griffith, George B. (b) 1029 - 10 Ave. West. (r) 2749 Wolfe St.	Calgary	Electrical Manager, Machinery Depot Ltd.
*Haddin, John (b) 9 Argyle Court.	Calgary	Civil Managing Director, Haddin & Miles, Ltd. General consulting practice, municipal and corporation; water-works, sewerage, power plant engineering.
Haddow, A. W. (b) City Engineer's Office. (r) 10635 - 125 St.	Edmonton	Civil City Engineer, City of Edmonton, General municipal engineering.
Haimes, James (r) 818 - 15 St. South. (b) c/o City Hall.	Lethbridge	Civil City Engineer, City of Lethbridge.
Hamilton, V. C. (b) c/o Canada Cement Co., Ltd., Phillips Square. (r) 36 Heath Road, Hampstead, P.Q.	Montreal, P.Q.	Civil Assistant to Chief Engineer, Canada Cement Co., Ltd.
Hanna, J. Jeffery (r) 1122 Frontenac Ave. (b) Ogden Road.	Calgary	Civil Assistant Superintendent, Oil Refinery, Imperial Oil Co., Ltd., Manufacturing Dept. Supervision of petroleum refining processes and equipment.
Hansen, D. A. (b) 205 McLeod Bldg. (r) 11023 - 64 St.	Edmonton	Electrical Superintendent, Northern Division, Calgary Power Co., Ltd. Supervision of maintenance, construction and contracts.
Hardie, W. D. L.	Lethbridge	Mining
*Hardy, R. M. (b) University of Alberta.	Edmonton	Civil Assistant Professor of Civil Engineering, Surveys, structural and general engineering design.
Harris, R. C. (r) 1016 - 15 Ave. West.	Calgary	Civil Division Engineer, C.P.R.

*Hays, David W.	Medicine Hat	Civil
(b) Box 677.	General Manager, Canada Land and Irrigation Co., Ltd.	
(r) 36 First St. S.W.		
Henderson, H. E.	Calgary	Civil
(r) 3807 - 7 St. West.	Resident Highway Engineer, Dept. of Public Works. Location and construction of highways.	
*Hershman, C. L.	Toronto	Mining
(b) 26 Adelaide St. West.	General Manager and Consulting Engineer, Bear Exploration and Radium Co., Ltd., and associate companies. Supervision of operations, geological surveys, exploration and development.	
(r) Yellowknife, N.W.T.		
Heuperman, F. J.	Calgary	Civil
(b) 215 - 6 Ave. West.	Engineer, The Canadian Western Natural Gas, Light, Heat & Power Co., Ltd. Supervision of construction, maintenance and operation of natural gas transmission lines and distribution systems.	
(r) 211 - 6 Ave. N.E.		
*Higgins, A.	Calgary	Mining and Mechanical
(r) 1106 Frontenac Ave.	General Mining Engineering. Mechanical equipment of mines, power plants and oil wells.	
Hilliard, G. F. H.	Monarch, Alta.	Civil
(b) c/o Lethbridge Northern Irrigation District.	Water Master, Lethbridge Northern Irrigation District. In charge of maintenance and replacement of structures, delivery of water, etc.	
Hilton, M. J.	Edmonton	Mining
(r) 8321 - 112 St.	Principal, Edmonton Technical High School.	
(b) Edmonton Tech. School.		
Hollies, R. T.	Calgary	Civil
(r) 3822 - 6 St. West.	On Active Service, R.C.E.	
Hoover, Owen H.	Calgary	Civil
(b) 423 Public Building.	Engineer-in-charge, Dominion Water and Power Bureau, Dept. of Mines and Resources. Local supervision of the Bureau's work in Alberta, Saskatchewan and the North West Territories, including the apportionment of International Waters between the United States and Canada.	
(r) 1411 - 4A St. N.W.		
Hope, Charles V.	Prince George, B.C.	Civil
(r) Box 266.	Resident Engineer, Bridge Department, Canadian National Railways. Supervising construction of bridges, culverts, buildings, etc. Charge of gravel pit and concrete pipe plant at Prince George.	
(b) c/o C.N.R.		
*Houston, G. N.	Olds, Alta.	Civil
(r) Box 187.		
*Howells, J. O.	Calgary	Mining
(b) Osoyoos, B.C.	Mine Manager, Osoyoos Mines of Canada, Ltd. Supervising prospecting activities, examining mineral prospects.	
(r) Inst. of Tech. and Art.		

*Howells, W. C.	Calgary	Mining
(b) 707 Lancaster Bldg.	Geologist, McColl-Frontenac Oil Co.,	
(r) 1730 - 12 Ave. West.	Ltd. Supervision of field work.	
*Hunter, C. M.	London, England	Mining
(b) Dashwood House,	President, Hunter Valley Oil Co.,	
69 Old Broad Street,	Ltd., and Northern Oil Royalties and	
London EC 2, England.	Development Co., Ltd. Geological	
	and oil field investigations, and the	
	technical direction of drilling opera-	
	tions.	
Hunter, H. M.	Calgary	Mining
	On Active Service, R.C.E.	
Hurst, C. K.	Edmonton	Civil
(b) c/o Waterworks Dept.	Junior Engineer. Investigations into	
Civic Block.	the hydraulics of the distribution	
	system.	
Hutchison, D.	Edmonton	Civil
(b) Birks' Bldg.	Manager of Transport, Hudson's	
	Bay Co., Ltd.	
*Inglis, H. M. B.	Calgary	Mining
(b) Royal Hotel.	Consulting Engineer, Oilfield	
(r) 6583 Marguerite St.,	Development Co. Superintending	
Vancouver, B.C.	company operations.	
*Inkster, O.	Edmonton	Civil
(b) Room 11,	Civil Engineering Consultant, surveys	
Imperial Bank Bldg.	and estimates.	
(r) 9537 - 95 Ave.		
*Irwin, Joseph S.	Calgary	Mining
(b) 812 Lancaster Bldg.	Consulting Petroleum Geologist. Re-	
(r) 3026 Glencoe Road.	ports on oil and gas possibilities. Oil	
	and gas exploration. Appraisal of	
	oil and gas properties.	
*Johnson, R. V.	Calgary	Mining
(b) 913 Lancaster Bldg.	Consulting Geologist, British Ameri-	
(r) 3426 - 6 St. West.	can Oil Co., Ltd. Geological exam-	
	ination of oil and gas property.	
Johnston, J. H.	Peace River	Civil
	District Engineer, Dept. of Public	
	Works, Provincial Government. High-	
	way and bridge construction.	
*Jones, David	Edmonton	Mining
(r) 10953 - 89 Ave.	Mine Surveying, general coal mining	
	practice.	
Jones, R. W.	Edmonton	Civil
(r) 10105 - 125 St.		
Judge, J. W.	Edmonton	Civil
(r) 11009 - 90 Ave.		
Keith, Homer P.	Lethbridge	Civil
(r) 417 Sherlock Block.	Senior Assistant Engineer, Dept. of	
(b) Dept. of Transport.	Transport. In charge of Airport con-	
	struction under District Airways	
	Engineer.	
Kelland, W. W.	Edmonton	Civil
Alberta Hotel.		
Kellock, G.	Coleman, Alta.	Mining

*Kelso, J. A.	Edmonton	Mining
(b) University of Alberta.	Provincial Analyst and Director,	
(r) 11118 - 89 Ave.	Industrial Laboratories. Operating general testing laboratories, includ- ing medical legal investigations.	
Kemp, M. D.	Calgary	Mining
(b) Petroleum & Natural Gas	Chief Engineer, The Petroleum and	
Conservation Board,	Natural Gas Conservation Board.	
Telephone Bldg.	Compilation of all engineering data	
(r) 1713 - 11 St. West.	of oil and gas wells of Turner Valley.	
Kidd, G. L. S.	Drumheller, Alta.	Mining
Box 230.		
King, Ernest	Medicine Hat	Civil
(r) 437 First Ave. N.W.	Maintenance Engineer, Canada Land and Irrigation Company.	
Laird, Robert G.	Calgary	Civil
(b) Turner Valley.	Engineering Department, Valley Pipe	
(r) 135 - 24 Ave. West.	Line Co. Construction and operation relating to the transportation of oil through pipe lines.	
Lawrence, R. S.	Coaldale, Alta.	Civil
(r) Box 151.	Watermaster, Engineering Branch, Dept. of Natural Resources, C.P.R. Maintenance of canals, etc.	
LeBourveau, H. B.	Calgary	Electrical
(b) Calgary Power Co., Ltd.	Engineer, Calgary Power Co., Ltd.	
(r) 1418 - 4A St. N.W.	Design, construction, operation and maintenance of transmission lines, sub-stations and distribution systems.	
Lees, Thomas	Calgary	Civil
(r) 2106 - 7 St. West.	District Engineer, C.P.R. Company.	
(b) District Engineer's Office, C.P.R.		
*Lilge, E. O.	Edmonton	Mining
(b) University of Alberta.	Lecturer, Ore Dressing. Examination of mineral claims and develop- ment work; ore dressing investiga- tions; mill design.	
Link, T. A.	Calgary	Mining
(b) 606 - 2 St. West.	Geologist-in-Charge, Imperial Oil Co.,	
(r) 1201 Prospect Ave.	Ltd. Exploration and supervision.	
Livingstone, R.	Lethbridge	Mining
(r) 518 - 14 St. South.	Retired.	
Lloyd, M. F. R.	Magrath	Civil
Box 84.		
Lowrie, A. W. P.	Calgary	Civil
(r) 734 Boulevard N.W.		
Macauley, A. G.	Drumheller, Alta.	Mining
333 Fifth St. E.		
*Macdonald, J. B.	Calgary	Civil
(b) 1912 - 9 Ave. West.	Owner, Macdonald & Macdonald. In- spection of materials of all kinds.	
(r) 422 - 14 St. N.W.		

Macdonald, J. D. A.	Edmonton	Civil
(b) City Engineer's Office.	Assistant City Engineer.	Municipal engineering.
(r) 12228 - 113 Ave.		
Mackay, Robert	Calgary	Electrical
(b) Utilities Bldg.	General Superintendent, City of Calgary Electric Light Department.	
(r) 718 Boulevard N.W.	In charge of design, construction and maintenance.	
Macpherson, N. W.	Edmonton	Civil
(b) Dept. of Public Works.	Highway Commissioner, Provincial Government.	
(r) 10931 - 123 St.		
Marshall, N.	Kelowna, B.C.	Mechanical
Box 787.	Retired.	
McCall, J. F.	Calgary	Mechanical
1501 First St. E.		
McClintock, N. W.	Atikokan, Ont.	Mining
	Superintendent, Upper Seine Gold Mines, Ltd. Supervision of development and installation of mining equipment.	
McEwen, H. J.	Calgary	Electrical
(b) 320 - 8 Ave. West.	District Manager, Canadian Westinghouse Co., Ltd. Sales.	
(r) 1918 - 12 St. West.		
McFarland, W. I.	Edmonton	Electrical
(b) City Power Plant.	Electrical Engineer, City of Edmonton. Electrical design of plant extensions, distribution systems, etc.	
(r) 10921 - 126 St.		
McFarlane, W. T.	Calgary	Civil
(b) Dominion Water & Power Bureau, Dept. of Mines and Resources.	Assistant Hydraulic Engineer. Compiling division of St. Mary and Milk Rivers.	
(r) 602 Rideau Road.		
*McKenzie, J. E.	Calgary	Civil
(r) 1723 - 13 Ave. W.	Consultant, assessment and valuation, structural engineering.	
(b) 807 - 1 St. E.		
McLean, H. J.	Calgary	Civil
(b) Calgary Power Co., Ltd., Insurance Exchge. Bldg.	Production Superintendent, Calgary Power Co., Ltd.	
(r) 629 Madison Ave.		
McLeod, Herdman	Mercoal, Alta.	Mechanical
	General Manager, McLeod River Hard Coal Co., Ltd.	
McLeod, J. A.	Cadomin, Alta.	Mining
(b) c/o Cadomin Coal Co., Limited.	General Manager, Cadomin Coal Co., Limited.	
McMahon, William	Calgary	Mechanical
(r) 917 - 3 Ave. N.W.	Boiler Inspector, Prov. Government.	
McMillan, James	Calgary	Electrical
(b) c/o Calgary Power Co., Limited.	Purchasing Agent, Calgary Power Co., Ltd.	
(r) 3046 - 5 St. S.W.		

McPherson, R. C.	Edmonton	Civil
(b) c/o Northwestern Utilities Limited.	Manager, New Business & Service Dpt., Northwestern Utilities, Ltd.	
(r) 7425 Saskatchewan Drive.	Sale, installation and servicing of gas burning equipment.	
McQueen, James	Red Deer	Civil
	District Engineer, Provincial Government. Construction and maintenance of highways; inspection of bridges and ferries.	
*Meech, H. William	Lethbridge	Civil
(b) 114 McFarland Bldg.	Senior partner, private practice.	
(r) 636 - 11 St. South.		
Meldrum, William	Lethbridge	Mining
(b) c/o Lethbridge Collieries.	Mining Engineer, Lethbridge Collieries Ltd. Mine surveys and general engineering work.	
Mellon, P. D.	Calgary	Civil
(b) 215 - 6 Ave. West.	General Superintendent and Chief Engineer, Canadian Western Natural Gas, Light, Heat & Power Co., Ltd.	
Menzies, D. B.	Edmonton	Civil
(r) 10907 University Ave.	Sanitary Engineer, Provincial Government.	
(b) 215 Administration Bldg.		
Millar, A. A.	Edmonton	Mining
(r) 11248 - 65 St.	Chief Inspector of Mines, Provincial Government.	
(b) Administration Bldg.		
Monkman, G. H. N.	Edmonton	Civil
(r) 10304 - 133 St.	Deputy Minister, Dept. of Public Works, Provincial Government.	
(b) Dept. of Public Works.		
Moodie, K.	Victoria, B.C.	Mechanical
(b) Parliament Bldgs.	Combustion Engineer, Dept. of Public Works, Government of British Columbia. Supervision of all provincial heating and power plants; design of new heating, refrigerating and ventilating plants.	
*Morrison, I. F.	Edmonton	Civil
(b) University of Alberta.	Professor of Applied Mechanics, University of Alberta. Structural design, buildings and bridges.	
Mould, John	Cardston, Alta.	Civil
	Surveys, design of irrigation structures and construction.	
Mount, W. R.	Edmonton	Civil
(r) 9801 - 110 St.	Engineer and Superintendent of Waterworks, City of Edmonton.	
(b) Civic Block.	Construction, maintenance and operation of distribution system.	
Murphy, W. J.	Prince Albert, Sask.	Electrical
(b) 1218 Central Ave.	District Superintendent, Canadian Utilities, Ltd.	
(r) 150 - 21 St. East.		

Nelson, Edward	Edmonton	Civil
(r) 11003 - 84 Ave.	Chief Engineer, Northwestern Utilities, Ltd. Estimating, designing, construction and operation of production, transmission and distribution systems of natural gas company.	
(b) 10124 - 104 St.		
Newcomen, T.	Macleod, Alta.	Civil
General Delivery.		
Nicol, J. D.	New Westminster, B.C.	Civil
4706 Douglas Road.	Engineer and General Superintendent, Marwell Construction Co., Ltd. Reinforced concrete and timber construction.	
O'Donnel, T.	Rosedale, Alta.	Mining
c/o Rosedale Coal Co. Ltd.		
O'Neill, G. W.	Calgary	Mechanical
(r) 1409 - 6A St. N.W.	On Active Service, R.C.O.C.	
Owens, R. B.	Victoria, B.C.	Civil
10 Mile Point.	Retired.	
Paterson, R. G.	Calgary	Mining
(b) 215 - 6 Ave. West.	Geophysicist, The Canadian Western Natural Gas, Light, Heat & Power Co., Ltd.	
(r) 718 - 6 Ave. West.		
Patrick, G. H.	Strathmore, Alta.	Civil
Drawer C.	Canal Superintendent, Dept. of Natural Resources, C.P.R. In charge of northern division, Western section Irrigation District.	
Paull, A. M.	Edmonton	Civil
(b) Dept. of Public Works.	Office Engineer, Highways Branch, Dept. of Public Works, Provincial Government.	
(r) 10523 - 125 St.		
Payne, A. I.	Victoria, B.C.	Civil
(r) 224 Menzie St.	Retired.	
Pearson, Vernon	Edmonton	Mechanical
(r) 9854 - 87 Ave.	Mechanical Superintendent, Dept. of Public Works, Provincial Government. In charge of all Government owned power plants, etc.	
(b) Dept. of Public Works.		
Phelps, G. D.	Turner Valley	Civil
(r) Box 173.	Field Engineer, Royalite Oil Co., Ltd. Surveying, earthwork, road and building maintenance, sewage disposal.	
(b) Royalite Oil Co., Ltd.		
*Pitcher, N. C.	Edmonton	Mining
(b) University of Alberta.	Professor of Mining Engineering,	
Pitfield, B. W.	Edmonton	Civil
(b) 10124 - 104 St.	Assistant Engineer, Northwestern Utilities, Ltd. General gas engineering.	
(r) 10213 - 124 St.		

Porteous, J. W.	Edmonton	Electrical
(b) University of Alberta.	Lecturer, Electrical Engineering,	
(r) 9244 - 116 St.		
Porter, S. G.	Calgary	Civil
(b) Dept. Nat. Resources,	Manager, Dept. of Natural Resources,	
C.P.R.	Canadian Pacific Railway Company.	
(r) 2727 Wolfe St.		
Raley, Charles	New Westminster, B.C.	Civil
(r) 704 Rayside Ave.		
Randle, Harold	Calgary	Electrical
(b) Calgary Power Co., Ltd.	Engineer, Calgary Power Co., Ltd.	
(r) 2314 Carelton St.	Public Utilities Engineering (Elec- trical and Waterworks)	
Rees, David B.	Edmonton	Civil
(r) 2 Ravina Apts.	District Engineer, Assistant Superin- tendent Mining Lands, Provincial	
(b) Administration Bldg.	Government.	
Rees, W. A. R.	Edmonton	Civil
(r) 10025 - 114 St.	Administrative Work, Provincial	
(b) Administration Bldg.	Government.	
Reid, A. M.	St. Paul	Civil
(b) Dept. of Public Works.	District Engineer, Dept. of Public Works, Provincial Government. Con- struction and maintenance of roads and bridges.	
Rhodes, F. N.	Calgary	Electrical
(r) 912 - 19 Ave. N.W.	Chief Instructor Electrical Dept.,	
(b) Institute of Technology.	Institute of Technology and Art.	
*Richards, J. A.	Drumheller, Alta.	Mining
Box 170.	Secretary-Manager, Drumheller Coal Operators Ltd.	
Ridley, E. N.	Strathmore, Alta.	Civil
Box 269.	Canal Superintendent, Dept. of Natural Resources, C.P.R.	
Ritchie, D. W.	Edmonton	Civil
(r) 10958 - 80 Ave.	District Engineer, Dept. of Public Works, Provincial Government. Sup- ervision of main highways.	
(b) Dept. of Public Works.		
*Robb, C. A.	Ottawa	Mechanical
(b) Chief, Gauge Division,	On War Service. Procurement and production of munitions gauges.	
Dept of Munitions and Supply.		
Robertson, E. D.	Edmonton	Civil
(r) 9928 - 113 St.	Provincial Government. Superinten- dent of maintenance.	
(b) Dept. of Public Works.		
Robertson, John	Drumheller, Alta.	Mining
Box 477.	Mine Manager, Elgin Coal Co., Ltd.	
Robinson, W. E.	Calgary	Civil
Utility Bldg.	Waterworks Engineer, City of Cal- gary. Supervision of complete sys- tem, Glenmore Reservoir, Dam, Puri- fication Works, etc.	

Ross, A. M.	Atlin, B.C.	Civil
Ross, R. W. (b) 9914 - 104 Ave. (r) 11723 - 88 St.	Edmonton Division Engineer, C.N.R. In charge of maintenance in Edmonton Division.	Civil
*Rutherford, R. L. (b) University of Alberta. (r) 11004 - 85 Ave.	Edmonton Associate Professor of Geology.	Mining
*Sanderson, J. O. G. (b) 219 Lougheed Bldg. (r) 606 Boulevard N.W.	Calgary Private practice; surveys, appraisals, geological studies and reports on oil, gas, coal and other economic deposits.	Mining
Sauder, P. M. (b) Water Resources Office, Terrace Bldg. (r) Corona Hotel.	Edmonton Director of Water Resources, Provincial Government.	Mechanical and Civil
Schulte, T. (r) Box 1. (b) Dept. Natural Resources, C.P.R.	Strathmore, Alta. Superintendent of Telephones and Electrical Equipment, Department of Natural Resources, C.P.R. Miscellaneous communication, illumination and electrical power applications for irrigation projects and affiliated undertakings, etc.	Electrical
*Shanks, John Box 18.	Nordegg, Alta. General Manager, Brazeau Collieries, Ltd. Reports on mining properties; appraisals, designing plants and equipment, estimates.	Mining
Simpson, A. E. (b) 635 Tegler Bldg. (r) 9904 - 106 St.	Edmonton Branch Manager, Hume and Rumble Ltd. Electrical contracting of all classes.	Electrical
Skarin, E. R. T. (r) 11115 - 89 Ave.	Edmonton Superintendent, Alberta Concrete Products, Ltd., Supt. Crown Paving Co., Ltd.	Civil
*Slipper, S. E. (b) 215 - 6 Ave. West. (r) 2931 Wolfe St.	Calgary Private Practice. Consulting geologist, supervision geological, geophysical and geochemical exploration; supervision exploratory drilling. Reports and valuation.	Mining
Snell, C. H. Box 101.	Red Deer	Civil
Somerville, A. L. H. (b) Post Office Bldg. (r) 307 - 12 St. South.	Lethbridge District Airway Engineer, Dept. of Transport. Construction and maintenance of airports, aerodromes, range stations, buildings, power lines, roads, etc.	Civil
Spratt, J. G. (b) 902 Lancaster Bldg. (r) 3043 - 6 St. S.W.	Calgary General Manager, Anglo Canadian Oil Co., Ltd. Management of drilling and production of oil wells.	Mining

Stanley, T. D.	Calgary	Electrical
(r) 1311 - 6 St. N.W.	Assistant Engineer, Calgary Power	
(b) c/o Calgary Power Co.	Co., Ltd.	
*Stansfield, Edgar	Edmonton	Mining
(b) University of Alberta.	Research Professor of fuels, Research	
(r) 11009 - 88 Ave.	Council of Alberta. Investigation of	
	solid, liquid, and gaseous fuels;	
	combustion, heating and ventilation	
Steel, F. M.	Calgary	Mining
(b) 503 Public Bldg.	Petroleum Engineer, Indian Affairs	
(r) 515 Sunderland Ave.	Branch, Dept. of Mines and Re-	
	sources. Supervision of petroleum	
	and mineral development on Indian	
	Reserves in Western Canada.	
Stephens, H. J.	Duparquet, Que.	Civil
c/o Beattie Gold Mines,	Engineer, Beattie Gold Mines, Ltd.	
Limited.	Design and construction of mill	
	structures; equipment and machine	
	design, installation; mine and surface	
	surveying.	
Stevens Guille, H. LeM.	Turner Valley	Mining
	Plant Superintendent, Royalite Oil	
	Co., Ltd. In charge of work in Gas	
	and Gasoline Dept.	
*Stevens, L. C.	Edmonton	Mining
(r) 9827 - 85 Ave.	Private Practice. Examination of	
	properties, planning development,	
	valuation, etc.	
Stevenson, W. F.	Edmonton	Civil
(r) 10238 - 123 St.	General Manager, Sterling Collieries,	
	Co., Ltd.	
Stockett, Lewis	Vancouver, B.C.	Mining
Vancouver Hotel.		
Storey, W. H.	Calgary	Civil
(r) 343 - 19 Ave. S.W.	Retired.	
Strachan, John	Edmonton	Civil
(b) Division Engineer's	Assistant Engineer, C.N.R. General	
Office, C.N.R.	maintenance.	
Taylor, Vernon	Turner Valley	Mining
	Petroleum Engineer, Royalite Oil	
	Co., Ltd. Production engineering in	
	Turner Valley oil field.	
Tempest, F. C.	Calgary	Civil
(r) 2610 - 10 St. S.W.	Refinery Engineer, Imperial Oil Co.,	
(b) Imperial Oil Refinery.	Ltd. Refinery maintenance and con-	
	struction. mechanical supervision.	
Tempest, J. S.	Calgary	Civil
(r) 3902 - 4 St. West.	Retired.	
Thompson, G. H.	Calgary	Electrical
(r) 822 Riverdale Ave.	Manager, Calgary Power Co., Ltd.	
(b) Insurance Exchge. Bldg.	Generation, transmission and distri-	
	bution of electric power.	

Thorne, B. L. (r) 3027 - 6 St. S.W.	Calgary	Mining Mining Engineer, Osler, Hammond & Nanton. Ltd.
Thorne, H. L. (r) 3027 - 6 St. S.W.	Calgary	Mining On Active Service, R.C.A.
Tregillus, A. L. (r) 1st Canadian Pioneer Bn.	Edmonton	Civil On Active Service, R.C.E.
*Trotter, W. B. (r) 1317 - 15 St. W. (b) 525A - 2 Ave. W.	Calgary	Mechanical Manager, Trotter, Morton, Ltd. Contractors for power plants, sprinklers, heating and plumbing.
Trowsdale, R. S. (r) 1310 Montreal Ave. (b) 11 Ave. and 4 St. W.	Calgary	Mechanical District Manager, Canadian General Electric Co., Ltd.
Tye, H. W. (b) 310 C.P.R. Bldg. (r) 10957 - 90 Ave.	Edmonton	Civil Engineer of Maintenance of Way and Structures, Northern Alberta Railway Company. In charge of all construction and maintenance work.
*Vissac, G. A. (r) 1325 Frontenac Ave.	Calgary	Mining Coal mining consultant.
Wagner, R. D. (r) 417 - 11 St. N.W. (b) Old Court House Bldg.	Calgary	Electrical Mechanical Branch, Dept. of Public Works, Provincial Government. Inspecting electrical installations within the Province.
*Warren, P. S. (b) University of Alberta.	Edmonton	Mining Professor of Geology.
Watson, J. T. (r) 605 - 11 St. South. (b) City Hall.	Lethbridge	Mechanical City Manager, City of Lethbridge.
Watson, R. G. (r) 13122 - 102 Ave. (b) City Power Plant.	Edmonton	Mechanical Power Superintendent, City of Edmonton. Operation of Power Plant, filtration, water treating and pumping station. Supervision of design and construction.
*Watson, R. H. (r) 11618 - 89 St.	Edmonton	Mining General mining consultant.
*Webb, H. R. (b) University of Alberta. (r) 8125 - 112 St.	Edmonton	Civil Associate Professor of Civil Engineering, Concrete, hydraulic and structural design.
Webb, J. B. (b) 902 Lancaster Bldg. (r) 3817 - 7 St. S.W.	Calgary	Mining Geologist, Anglo Canadian Oil Co., Ltd. Geological work in connection with drilling activities and general exploratory mapping, etc.
Webster, G. W. (r) 1236 - 15 Ave. W. (b) 226 Lougheed Bldg.	Calgary	Mining Petroleum Engineer, Home Oil Company. Field supervision of producing oil wells.

*Whigham-Teasdale, J. R.	Drumheller, Alta.	Civil
Box 90.	Mine surveying and appraising.	
White, T. W.	Edmonton	Civil
(b) Room 217 C.N.R. Station.	District Engineer, C.N.R.	
(r) 11132 - 88 Ave.	Maintenance of roadway and structures.	
White, W. S.	Ponoka, Alta.	Mechanical
c/o Provincial Mental Hospital.	Chief Engineer, Dept. of Public Works, Provincial Government. General supervision of power production and distribution; maintenance of all mechanical apparatus at Ponoka, Alberta.	
Whiteside, O. E. S.	Vancouver, B.C.	Mining
Devonshire Hotel.	Retired.	
Williams, A. E.	Saunders, Alta.	Mining
	Assistant Mine Manager, Bighorn and Saunders Creek Collieries, Ltd. In charge of underground operation of mine and mine surveys.	
*Williams, T. B.	Calgary	Mining
(r) 3406 - 6 St. W.	Petroleum Engineer, Government of British Columbia, temporarily. Principal work is consulting for various Alberta companies.	
Willson, A. G.	Calgary	Civil
(r) 1026 - 6 Ave. W.	On Active Service, R.C.A.S.C.	
*Wilson, R. S. L.	Edmonton	Civil
(b) University of Alberta.	Dean. Faculty of Applied Science, Professor of Civil and Municipal Engineering. Advisory work in civil engineering.	
(r) 11044 - 81 Ave.		
Wood, J. R.	Calgary	Civil
(b) City Hall.	Assistant City Engineer, City of Calgary.	
(r) 818 - 18 Ave. W.		
Wotherspoon, William	Lethbridge	Civil
(b) Post Office Bldg.	District Engineer, Dominion Government, Dept. of Agriculture, P.F.R.A. In charge of water development in Lethbridge district.	
*Young, J. W.	Calgary	Mining
(b) Glenmore Water Supply.	Assistant City Chemist, City of Calgary. Analytical work of most types; experimental chemical research for industries.	
(r) 1710 - 14 Ave. W.		

LICENSEES

Name	Residence	Licence Expires
Ball, Max W.	Edmonton (b) Edmonton Credit Bldg. (r) 10933 - 124 St.	December 31, 1940
Bentall, Charles	Vancouver, B.C. (b) Dominion Bridge Co. 509 Richards St.	March 12, 1941
Boatright, Byron B.	Calgary (b) Palliser Hotel. (r) Houston, Texas	May 22, 1941
Boyd, L. A.	Hartell, Alberta (b) Gas & Oil Products Ltd.	March 18, 1941
Brown, Barnum	Calgary (b) 1103 Colbourne Crescent. (r) 522 West End Avenue, New York, N.Y.	October 31, 1940
Denton, H. E.	Longview, Alta. Box 31.	March 31, 1941
Doze, K. M.	Black Diamond, Alberta (b) Oil Ventures Ltd.	July 31, 1941
Galloway, John O.	Calgary (b) 908 Lancaster Bldg. (r) 3022 Glencoe Road.	December 31, 1940
Gibbons, Richard Henry	Black Diamond, Alberta (b) Haliburton Oil Well Cementing Company.	July 31, 1940
Gill, Stanley	Calgary (b) Anglo Canadian Oil Co., Ltd. (r) 123 North Park Drive, Houston, Texas.	January 3, 1941
Hintze, F. F.	Cardston, Alberta (b) Franco Oils Ltd. (r) 339 South 13 East, Salt Lake City, Utah.	May 22, 1940
Huntley, Louis Grow	Pittsburgh, Pa. (r) 1333 Squirrel Hill Ave.	December 31, 1940
Kent, E. S.	Winnipeg, Man. (b) 1137 Pacific Avenue.	February 12, 1941
Knode, W. F.	Calgary (b) 208 Lancaster Bldg. (r) 3432 - 6 St. West.	October 31, 1940
Legget, R. F.	Waterways, Alberta c/o MacKenzie River Transport Company.	June 15, 1941
Ray, Donald C.	Calgary c/o Industrial Minerals Ltd.	November 20, 1940
Tennis, Ward B.	Calgary (b) 907 Lancaster Bldg.	May 22, 1941
Von Weymarn, Paul	Calgary (r) 38 Drake Apts.	May 22, 1941

LICENSEES—Continued		
Walker, J. Murray	Okotoks, Alberta	December 31, 1940
	(b) c/o Lane-Wells Co. Box 102.	
Will, Ralph	Longview, Alberta	March 31, 1941
	Box 31.	
Zandmer, S. Myron	Lethbridge	May 22, 1941
	(b) c/o Marquis Hotel. (r) 111 N. Kenmore, Los Angeles, Calif.	

ENGINEERS-IN-TRAINING

Coote, George	Nanton, Alberta
B.Sc. Civil Engineering (1940).	
*Eckenfelder, G. V.	239 - 15 Ave. W., Calgary
B.Sc. Civil Engineering (1933).	
Gads, Leonard	University of Alberta, Edmonton
B.Sc. Civil Engineering (1939).	
Garrett, R. H.	451 Birks Bldg., Edmonton
B. Eng. Mechanical Engineering (1939).	
Hannay, R. L.	310 Kootenay Ave., Trail, B.C.
B.Sc. Chemical Engineering (1940).	
Hoar, C. R.	Knee Hill Valley, Alberta
B.Sc. Electrical Engineering (1940).	
Hugill, J. T.	8921 - 112 St., Edmonton
B.Sc. Chemical Engineering (1939).	
*Hurdle, H. L.	Canadian Signal Training Centre, Kingston, Ont.
B.Sc. Electrical Engineering (1933).	
Kobylnyk, D. F.	c/o Calgary Power Co., Ltd., Calgary
B.Sc. Electrical Engineering (1938).	
Langston, J. F.	c/o Lane Wells Co., Box 102, Okotoks, Alberta
B.Sc. Civil Engineering (1937).	
Madill, Floyd	10039 - 107 St., Edmonton
B.Sc. Civil Engineering (1940).	
McAulay, G. F.	10617 - 98 Ave., Edmonton
B.Sc. Civil Engineering (1939).	
Monkman, B. A.	Strathcona Hotel, Edmonton
B.Sc. Civil Engineering (1940).	
Peck, R. C.	512 - 9 Ave. N.E., Calgary
B.Sc. Civil Engineering (1940).	
Ripley, H. A.	1221 - 5 Ave. S., Lethbridge
B.Sc. Civil Engineering (1940).	
Ross, Donald	11723 - 88 St., Edmonton
B.Sc. Civil Engineering (1940).	

*On Active Service.

Schulte, T. M.
B.Sc. Civil Engineering (1940).
Stanley, Donald R.
B.Sc. Civil Engineering (1940).
Svarich, J. P.
B.Sc. Civil Engineering (1929).
Thorssen, L. A.
B.Sc. Civil Engineering (1939).

Box 1, **Strathmore, Alberta**

11632 - 96 St., **Edmonton**

11428 - 96 St., **Edmonton**

1316 - 13 Ave. W., **Calgary**

PUPILS

Alston, J. G.
Amundsen, O. J.
Anderson, B. J.

Bailey, R. F.
Bain, V. E.
Ballantyne, A. G.
Bate, J. B.
Bayliss, W. J.
Bishop, A. A.
Blackstock, W. J.
Blakey, N. G.
Bolton, S. M.
Boote, E.
Bromley, J. E.
Brown, L. J.
Brown, R. C.
Buchanan, J. A. D.

Callaway, R. L.
Cameron, B. A.
Cameron, S. D.
Chalmers, H. J.
Charyk, J. V.
Clark, G. R.
Clark, R. J.
Clink, A. R.
Creighton, H. H. L.
Crowder, E.
Cummings, G.

D'Appolonia, E.
Davis, A. P.
Davis, G. F. S.
Davis, S. G.
Deakin, F. E.
Dembicki, H.
Dembicki, S.
Dewis, M. W.
Dimond, A. W.
Donvito, S.
Drake, V. M.
Dunkley, C. S.
Dutton, V. L.

Elwell, J. P.

Findlater, A. S.
Fish, A. W.
Flanders, R. E.
Fledderjohn, E. C.

Flynn, J. I.
Ford, G.
Frick, D. W.

Gamble, I. H.
Gidzinski, J. D.
Gifford, J. P.
Grant, N. A.
Greenaway, N. E.
Grier, R. S.
Gunderson, J. G.

Halford, T. G.
Hall, A. H.
Hamilton, J. J. S.
Hanna, M. M.
Hannah, M. R.
Hanson, A.
Hargrave, J. H.
Hargrave, R. C.
Hargreaves, J. E.
Haun, G. R.
Hazelton, D.
Henderson, R. C.
Hemstock, R. A.
Henker, W. M.
Henning, R. V.
Hewitt, H. E.
Hiller, W. A.
Hollenback, G.
Holub, R.
Holmberg, H. B.
Howey, R. M.
Hughes, A. F.
Hutchison, D. C.

Inkpen, G. R.
Irwin, R. A.

Jensen, H.
Johnson, H. L.
Jones, W. D.

Kervin, J. K.
Kidd, F. A.
King, E. W.
Kittlitz, N. E.
Kyle, G. L.

Lawrence, E. A.
Lawrence, N. A.
Lambert, L. J.

Lewis, J. G.
Litkenhaus, R. A.
Lukawesky, T.

MacGregor, D. W.
MacKenzie, J. R.
McClary, N. E.
McPherson, J. D. P.
Martin, J. H.
Martin, W. D.
Mathers, F. F.
McCrum, J. R.
McDougall, G. E.
McEwen, W. F.
McKernan, E. W.
McLean, C. E.
McMeekin, G. R.
McQuarrie, A. M.
Millar, K. M.
Miller, J. G.
Mitchell, C. M.
Moore, D. F.
Moore, K.
Moseson, S.
Mulligan, J. C.
Murray, E. H.
Murray, N. F.

Neerland, O. A.
Netterville, S. G.
Neumann, T. O.

Osberg, G. L.

Pegler, W. A.
Peterson, W.
Phillips, R. E.
Phillips, S. C.
Phipps, R. T.
Pickett, D. E.
Pon, H. R.
Poole, G. E.
Preboy, J. W.

Redman, D. L.
Reiten, S. V.
Reynolds, J. W.
Robbie, I. C.
Rollefson, M. O.
Roper, J. S.
Roxburgh, J. M.

PUPILS—Continued

Ryski, L. J.
Ryter, A. A.

Samuel, A. B.
Scammell, E. R.
Sereda, P. J.
Sharp, F.
Short, A. F. D.
Shouldice, J. R.
Sibary, T. W.
Sinoski, D. A.
Sissons, G. H.
Smith, A. C.
Smith, I.
Smith, R. C.

Sneath, D. M.
Sparrow, H. S. G.
Spence, R. A.
St. Amour, A. P.
Steed, H. R.
Sterne, J. R.
Stevinson, H. T.
Stollery, C. A.
Sutherland, G. O.
Swallow, M. G.
Swift, J. A.

Tallman, A. M.
Templeton, C. H.
Terwillegar, W. R.

Tobey, W. B.
Tustin, T. G.
Tuck, N. G. M.

Vettorel, J. J.
Walford, R. G.
Walker, N.
Walkley, A. H.
Wetterberg, D. C.
White, R. T.
Wholey, W. B.
Willson, B. F.
Wilson, H. S.

Yavis, G. C.

LIFE MEMBERS

Charles Raley.
W. D. L. Hardie.
George W. Craig.
W. H. Storey.
Lewis Stockett.
P. Turner Bone.
Nat. Marshall.
A. S. Dawson.
J. S. Tempest.
R. B. Owens.
J. F. McCall.
O. E. S. Whiteside.
R. Livingstone.
Peter Allen.
W. S. Fetherstonhaugh.
John Callaghan.
G. N. Houston.

CHARTER MEMBERS

O. E. S. Whiteside.
L. E. Drummond.
F. H. Peters.
R. J. Gibb.
J. F. McCall.
F. W. Hobson.
W. R. Pearce.
R. A. Brown.
R. S. L. Wilson.

1920 COUNCIL

F. H. Peters	President
L. E. Drummond	Vice-President
S. G. Porter	Civil
R. J. Gibb	Civil
R. A. Brown	Electrical
R. B. Baxter	Electrical
W. G. Gray	Mechanical
F. W. Hobson	Mechanical
O. E. S. Whiteside	Mining
N. C. Pitcher	Mining
W. R. Pearce	Senate
R. S. L. Wilson	Registrar

1921 COUNCIL

R. A. Brown	President
G. W. Craig	Vice-President
S. G. Porter	Civil
R. J. Gibb	Civil
R. B. Baxter	Electrical
T. Schulte	Electrical
W. G. Gray	Mechanical
C. A. Robb	Mechanical
O. E. S. Whiteside	Mining
B. L. Thorne	Mining
W. R. Pearce	Senate
R. S. L. Wilson	Registrar

1922 COUNCIL

R. G. Drinnan	President
W. B. Trotter	Vice-President
L. C. Charlesworth	Civil
F. W. Alexander	Civil
T. Schulte	Electrical
H. J. McEwen	Electrical
C. A. Robb	Mechanical
R. S. Trowsdale	Mechanical
B. L. Thorne	Mining
Wm. Stevenson	Mining
A. S. Dawson	Senate
R. S. L. Wilson	Registrar

1923 COUNCIL

C. A. Robb	President
S. G. Porter	Vice-President
L. C. Charlesworth	Civil
H. B. Muckleston	Civil
H. J. McEwen	Electrical
Robt. Mackay	Electrical
R. S. Trowsdale	Mechanical
W. J. Cunningham	Mechanical
Wm. Stevenson	Mining
W. A. Davidson	Mining
A. S. Dawson	Senate
R. S. L. Wilson	Registrar

1924 COUNCIL

L. C. Charlesworth	President
R. S. Trowsdale	Vice-President

A. L. Ford	Civil
A. W. Haddow	Civil
Robt. Mackay	Electrical
R. W. Boyle	Electrical
W. J. Cunningham	Mechanical
J. F. McCall	Mechanical
R. Livingstone	Mining
John Shanks	Mining
A. S. Dawson	Senate
R. S. L. Wilson	Registrar

1925 COUNCIL

R. W. Boyle	President
B. L. Thorne	Vice-President
A. L. Ford	Civil
P. M. Sauder	Civil
Robt. Mackay	Electrical
J. D. Baker	Electrical
J. F. McCall	Mechanical
J. T. Watson	Mechanical
R. Livingstone	Mining
J. A. Allan	Mining
A. S. Dawson	Senate
R. J. Gibb	Registrar

1926 COUNCIL

B. L. Thorne	President
W. J. Cunningham	Vice-President
P. M. Sauder	Civil
H. P. Keith	Civil
J. D. Baker	Electrical
G. H. Thompson	Electrical
J. T. Watson	Mechanical
Vernon Pearson	Mechanical
J. A. Allan	Mining
G. Kellock	Mining
A. S. Dawson	Senate
R. J. Gibb	Registrar

1927 COUNCIL

W. J. Cunningham	President
R. S. L. Wilson	Vice-President
H. P. Keith	Civil
H. W. Meech	Civil
G. H. Thompson	Electrical
R. B. Baxter	Electrical
Vernon Pearson	Mechanical
J. A. Carruthers	Mechanical
G. Kellock	Mining
M. J. Hilton	Mining
A. L. Ford	Senate
R. J. Gibb	Registrar

1928 COUNCIL

R. S. L. Wilson	President
P. M. Sauder	Vice-President
H. W. Meech	Civil
A. I. Payne	Civil
R. B. Baxter	Electrical

H. J. McLeod	Electrical
J. A. Carruthers	Mechanical
H. A. McMillan	Mechanical
M. J. Hilton	Mining
G. L. S. Kidd	Mining
A. L. Ford	Senate
P. L. Debney	Registrar

1929 COUNCIL

R. B. Baxter	President
John Shanks	Vice-President
A. I. Payne	Civil
R. J. Gibb	Civil
H. J. McLeod	Electrical
R. A. Brown	Electrical
H. A. McMillan	Mechanical
W. J. Cunningham	Mechanical
G. L. S. Kidd	Mining
A. E. Cameron	Mining
A. L. Ford	Senate
P. L. Debney	Registrar

1930 COUNCIL

J. A. Allan	President
R. S. Trowsdale	Vice-President
R. J. Gibb	Civil
G. S. Brown	Civil
R. A. Brown	Electrical
H. J. McEwen	Electrical
W. J. Cunningham	Mechanical
Nat. Marshall	Mechanical
A. E. Cameron	Mining
Wm. Stevenson	Mining
R. Livingstone	Senate
P. L. Debney	Registrar

1931 COUNCIL

R. S. Trowsdale	President
R. J. Gibb	Vice-President
G. S. Brown	Civil
A. W. Haddow	Civil
H. J. McEwen	Electrical
Robert Mackay	Electrical
Nat. Marshall	Mechanical
J. F. McCall	Mechanical
William Stevenson	Mining
L. C. Stevens	Mining
R. Livingstone	Senate
P. L. Debney	Registrar

1932 COUNCIL

R. J. Gibb	President
J. D. Baker	Vice-President
A. W. Haddow	Civil
T. Lees	Civil
W. C. Bruce	Electrical
Robert Mackay	Electrical
J. F. McCall	Mechanical

W. B. Trotter	Mechanical
L. C. Stevens	Mining
S. C. Slipper	Mining
R. Livingstone	Senate
P. L. Debney	Registrar

1933 COUNCIL

J. D. Baker	President
J. B. deHart	Vice-President
T. Lees	Civil
R. W. Ross	Civil
W. C. Bruce	Electrical
G. H. Thompson	Electrical
J. H. W. Douglas	Mechanical
W. B. Trotter	Mechanical
C. C. Ross	Mining
S. C. Slipper	Mining
R. Livingstone	Senate
R. S. L. Wilson	Dominion Council
P. L. Debney	Registrar

1934 COUNCIL

J. B. deHart	President
P. M. Sauder	Vice-President
R. W. Ross	Civil
J. Haddin	Civil
G. H. Thompson	Electrical
E. W. Bowness	Electrical
J. H. W. Douglas	Mechanical
A. Ritchie	Mechanical
C. C. Ross	Mining
N. Fraser	Mining
R. J. Gibb	Senate
R. S. L. Wilson	Dominion Council
P. L. Debney	Registrar

1935 COUNCIL

P. M. Sauder	President
A. W. Haddow	Vice-President
J. Haddin	Civil
H. J. McLean	Civil
E. W. Bowness	Electrical
C. E. Garnett	Electrical
A. Ritchie	Mechanical
J. T. Watson	Mechanical
N. Fraser	Mining
J. O. G. Sanderson	Mining
R. J. Gibb	Senate
P. M. Sauder	Dominion Council
P. L. Debney	Registrar

1936 COUNCIL

A. W. Haddow	President
H. J. McLeod	Vice-President
C. E. Garnett	Civil
H. J. McLean	Civil

H. P. Keith	Civil
C. E. Garnett	Electrical
T. Schulte	Electrical
J. B. Burke	Electrical
J. T. Watson	Mechanical
W. B. Trotter	Mechanical
J. O. G. Sanderson	Mining
A. A. Millar	Mining
R. J. Gibb	Senate
P. M. Sauder	Dominion Council
P. L. Debney	Registrar

1937 COUNCIL

C. E. Garnett	President
J. O. G. Sanderson	Vice-President
H. P. Keith	Civil
H. J. McLean	Civil
J. B. Burke	Electrical
W. E. Cornish	Electrical
W. B. Trotter	Mechanical
J. T. Watson	Mechanical
A. A. Millar	Mining
J. G. Spratt	Mining
R. A. Brown	Senate
P. M. Sauder	Dominion Council
P. L. Debney	Registrar

1938 COUNCIL

J. O. G. Sanderson	President
J. T. Watson	Vice-President
H. J. McLean	Civil
Julian Garrett	Civil
W. E. Cornish	Electrical
W. C. Bruce	Electrical
R. M. Dingwall	Mechanical
C. A. Robb	Mechanical
J. G. Spratt	Mining

J. B. deHart	Mining
R. A. Brown	Senate
P. M. Sauder	Dominion Council
P. L. Debney	Registrar

1939 COUNCIL

J. T. Watson	President
H. J. McLean	Vice-President
Julian Garrett	Civil
G. S. Brown	Civil
W. C. Bruce	Electrical
W. E. Cornish	Electrical
C. A. Robb	Mechanical
R. S. Trowsdale	Mechanical
J. B. deHart	Mining
F. M. Steel	Mining
P. M. Sauder	Senate
J. B. deHart	Dominion Council
P. L. Debney	Registrar
(To May 15)	
H. R. Webb	

1940 COUNCIL

H. J. McLean	President
W. E. Cornish	Vice-President
G. S. Brown	Civil
F. R. Burfield	Civil
W. I. McFarland	Electrical
H. B. LeBourveau	Electrical
R. S. Trowsdale	Mechanical
J. A. Carruthers	Mechanical
F. M. Steel	Mining
C. W. Dingman	Mining
P. M. Sauder	Senate
J. B. deHart	Dominion Council
H. R. Webb	Registrar





